Saddleback College Catalog

2009-2010

Volume XXXXI

Saddleback College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Boulevard, Suite 204, Novato, CA 94949, (415) 506-0234, an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

Saddleback College prohibits discrimination on the basis of race, color, religion, national origin, age, disability, sexual orientation, marital status, or pregnancy in the administration of its educational policies, personnel practices, and college programs. The college, by law, cannot engage in any such discriminatory activity. Grievance procedures exist for students, employees, and job applicants. Information regarding formal complaints is on file in the offices of the Chancellor and the Deputy Chancellor and in the offices of the College President and Vice President for Instruction. The Office of Student Services maintains grievance procedure information for students. Any questions concerning discrimination may be directed to the Saddleback College Vice President for Student Services and Title IX Coordinator, Lise Telson, 949-582-4566. Saddleback College, 28000 Marguerite Parkway, Mission Viejo, CA 92692.

Saddleback College has made every reasonable effort to ensure that the information published in this catalog accurately reflects current legislation, information, policies, and fees. However, these are subject to modification at any time, without notice, in order to accommodate changes in the resources or educational plans of the district, or for reasons deemed appropriate by the college president or designee.

Nota: La información para las personas que hablan Español se encuentra en la página 8 de este catalogo.

Table of Contents

South Orange County Community College District ---- 3
Saddleback College ---- 4
Administration and Academic Divisions ---- 5
Goals of Saddleback College ---- 7
Informacion en Español ---- 8
Admission Requirements ---- 9
Matriculation Services ---- 11
Registration for Classes ---- 13
Student Fees/Refunds/Credits ---- 14
Student Support Services ---- 16
Student Activities/College Life ---- 20
Students' Rights and Responsibilities ---- 22
Academic Regulations ---- 29
Honors Program ---- 33
Credit by Exam ---- 34
Alternative Credit Options ---- 35
Other College Programs ---- 39
Graduation Requirements ---- 40
Degrees, Certificates, and Awards ---- 45
Articulation/Transfer Patterns ---- 105
Announcement of Courses ---- 127
Emeritus ---- 225
Faculty ---- 234
Index ---- 244

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A very special "thank you" for the continued support of all the division office staff, administrators, and faculty, and of the ITC staff. An expecially very big "thank you" to Bob Jacobsen and David Fransisco for their willingness to step into curriculum never, never land with the loss of Howard Adams. Howard we miss you.

South Orange County Community College District

28000 Marguerite Parkway, Mission Viejo, California 92692-3635, 949-582-4999, www.socccd.org

Vision

To be a educational leader in a changing world.

Mission

To provide a dynamic learning environment and diverse opportunities to fostering student success and contributing to the community.

Goals

1. Develop a plan to meet all capital and scheduled maintenance needs.
2. Acquire, develop, and utilize technologies that support data-driven decisions and ongoing accountability.
3. Complete the production and implementation of the Student Information System, including effective training and backup procedures for the registration process.
4. Develop and implement comprehensive emergency preparedness plans and a disaster recovery plan for information technology services.
5. Assess all administrative units and develop and implement action plans to increase efficiency, effectiveness, electronic security, and cost savings.
6. Establish a legacy in environmental sustainability in all areas including instruction, operations, construction, facilities, energy conservation, and stewardship.
7. Enhance online certificate/degree programs and the accompanying online student support services.
8. Assess the degree to which the colleges are aligning educational programs with community needs in order to offer relevant academic and career technical education programs.

Dr. Raghu P. Mathur, Ed.D.
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Deputy Chancellor
Robert S. Bramucci, Ph.D.
Vice Chancellor, Technology and Learning Services
David P. Bugay, Ph.D.
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Tracy Daly
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Saddleback College

President's Message

Congratulations on choosing Saddleback College, where our number one priority is the success of all of our students. Whether you are a new student or well into your studies, you'll find that Saddleback College's outstanding education and training programs will help you fulfill your goals and aspirations.

Saddleback College's rigorous and stimulating academic programs are taught by a faculty renowned for its expertise and experience. Our students have access to over 300 programs to help them define and reach their educational, professional, and personal goals. For students seeking to transfer to a four-year college or university, our Transfer Center's success is known statewide and each year we transfer a record number of students to UCLA, USC, San Diego State University, CSU Fullerton, and Arizona State University, and many others across the nation.

Our career technical education programs combine classroom experience with on-the-job training to provide our students the practical skills they need to succeed in the job market. We consistently offer new classes to keep up with industry trends, and this year, we are thrilled to introduce programs in ecological restoration and sustainability studies to give our students skills in green technologies that are increasingly sought by employers.

To assist students who are veterans or active military personnel, Saddleback College has established a new Veterans Education and Transition Services (VETS) program that seeks to help students who were in combat become acclimated to the college environment through such services as a special "boots to books" course, an active veterans campus club, assistance with identifying available veterans benefits, and services for students who require special accommodations. We have made veterans services a top priority of Saddleback College and we look forward to the grand opening of our fully-operational Veterans Center this coming fall semester.

Since Saddleback College first opened its doors to students in 1968, more than half a million students have made us their first choice in higher education, and we're happy you have too. To find out about all of our academic programs, counseling services, and activities, please visit our website at www.saddleback.edu. We look forward to seeing you on campus and thank you for becoming a member of our Saddleback College family!

Go Gauchos!

Tod A. Burnett, Ed.D.
President, Saddleback College

Administration

OFFICE OF THE PRESIDENT **(949) 582-4722**
President **Dr. Tod A. Burnett**

OFFICE OF INSTRUCTION **(949) 582-4795**
Vice President **Dr. Rajen Vurdien**

OFFICE OF STUDENT SERVICES **(949) 582-4566**
Vice President **Lise Telson**

ADMISSIONS, RECORDS, AND ENROLLMENT SERVICES **(949) 582-4555**
Director **Jane Rosenkrans**

STUDENT DEVELOPMENT **(949) 582-4616**
Director **Audra DePadova**

FINANCIAL AID **(949) 582-4860**
Director **Mary Hall**

Academic Divisions

ADVANCED TECHNOLOGY AND APPLIED SCIENCE
(949) 582-4541
Dean **Don Taylor**

Aquarium and Aquaculture Science
Architectural Drafting
Automotive Technology
Communication Arts/Cinema/Radio/TV
Computer Maintenance Technology
Cosmetology
Drafting Technology
Ecological Restoration
Electronic Technology
Environmental Studies
Family and Consumer Sciences
Fashion
Foods and Nutrition
Graphics
Horticulture
Interior Design
Marine Science Technology
Rapid Digital Manufacturing
Travel and Tourism

BUSINESS SCIENCE, WORKFORCE AND ECONOMIC DEVELOPMENT
(949) 582-4773
Dean **Ken Patton**

Accounting
Administrative Assistant
Business
Computer and Information Management
Real Estate

COUNSELING SERVICES AND SPECIAL PROGRAMS
(949) 582-4572--Counseling Services
(949) 582-4249--Special Services
(949) 582-4620 EOPS
Dean **Jerilyn R. Chuman**

Adapted Kinesiology
Applied Psychology
Special Education
Special Services

FINE ARTS
(949) 582-4747
Dean **Rocco J. Cifone**

Art
Music
Photography
Speech
Theatre Arts

EMERITUS INSTITUTE
(949) 582-4835
Director **Sandra Marzilli**

HEALTH SCIENCES AND HUMAN SERVICES
(949) 582-4701
Interim Dean **Tammy Rice**
Acting Assistant Dean/Director Nursing **Diane Pestolesi**

American Sign Language Interpreting
Emergency Medical Technology
Gerontology
Health Sciences
Human Services
Insurance Billing
Medical Assistant
Medical Lab Technician
Mental Health
Nursing
Paramedic
Phlebotomy

LIBERAL ARTS AND LEARNING RESOURCES
(949)582-4788--LIBERAL ARTS
(949) 582-4314--LEARNING RESOURCES
Dean **Dr. Kevin O'Connor**

English
English as a Second Language
Humanities
Interdisciplinary Studies
International Languages
Journalism
Library
Philosophy
Tutoring

MATHEMATICS, SCIENCE, AND ENGINEERING
(949) 582-4820
Dean **Dr. James R. Wright**

Astronomy
Biological Sciences
Chemistry
Computer Science
Engineering
Geology
Mathematics
Marine Science
Physics

PHYSICAL EDUCATION/KINESIOLOGY AND ATHLETICS
(949) 582-4545--Physical Education/Kinesiology
(949) 582-4547--Athletics
Dean **Tony Lipold**

Dance
Health
Intercollegiate Athletics
Kinesiology
Recreation

SOCIAL AND BEHAVIORAL SCIENCE
(949) 582-4733
Dean **Dr. Patricia Flanigan**

Anthropology
Child Development
Cross-Cultural Studies
Economics
Education
Geography
Geographic Information Systems
History
Human Development
Political Science
Psychology
Social Science
Sociology
Women's & Gender Studies

Harry & Grace Steele Floor
xceptional contributions from the Steele

Vision, Mission, and Values 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, and individual expression; and to support a dynamic and diverse environment of innovation and collegiality.

Our Purpose:

The primary purpose 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:

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

To fulfill this purpose, 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.

Career/Technical Education

Career/Technical Certificates of Achievement and Occupational Skills awards are designed to prepare students to qualify for positions in business and industry, technical fields, and selected professions and careers.

Lower-Division Transfer Education

Baccalaureate-level transfer courses, which include general education and transfer major preparation courses, 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. Classes are self-supporting and do not receive funding through state or local taxes or the College's budget.

Our Values:

Saddleback College embraces:

- Quality education
- Academic freedom and the open exchange of ideas
- Student access and success
- Innovation and creativity
- Collaboration, collegiality, and teamwork
- Integrity and respect
- Equity and diversity
- Commitment to the College's mission

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 ó a la Oficina de Consejería al 949-582–4572. 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 desde el 9 al 12 año de la escuela secundaria podrán matricularse en clases recomendadas por el/la director/a de su escuela (director del distrito escolar para los estudiantes que aprenden en casa "home schooled") pero que no excedan 11 unidades. Si desea más información, consulte con 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. Por 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 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 através de la red (Internet). Solamente los /las estudiantes en el programa de Emeritus tienen la opción de inscribirse via telefónica, en persona, o por la red (Internet). Es muy importante que asista a clases el primer día.

CÓMO AÑADIR Y CANCELAR CLASES: Los/as estudiantes pueden añadir clases hasta el día antes de su comienzo. Una vez que la clase haya empezado o que no tenga cupo, los/as estudiantes deberán pedirle permiso al/a la profesor/a para añadir la clase. Si se les da permiso, deberán tener un número llamado (APC), un código que les permitirá matricularse. Lo puede hacer por medio de la red (internet) o en persona antes de la fecha límite que tenga el código APC. Deberá pagar en el momento que se matricule.

Nota: Es de suma importancia que el/la estudiante lea el horario de clases para informarse de las fechas exactas para dejar clases. Puede usar el internet para dejar una clase.

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: $190.00 (por unidad) y en adición $20.00 por unidad. Al no-residente que es ciudadano/residente extranjero adicionalmente se le cobrará $25.00 por uso de facilidades (por unidad) y $54.00 (sin devolución), para procesar su solicitud al tiempo de solicitar.

Residentes: Al residente de California se le cobrará $20.00 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 coche es $30 por semestre, $15 por la sección de verano, ó $60 por un permiso anual el cual incluye: el semestre de otoño, la primavera y el verano. Permiso para motos cuesta $10 cada semestre, $10 por la sección de verano ó $30 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 $17 por semestre (en otoño y primavera) para cubrir servicios de salud personal. El costo en el semestre de verano es de $14 y les permite a los/las estudiantes que aprovechen varios servicios médicos. (Este servicio se cobrará aunque tome "0" unidades).

ENFERMERIA: La enfermería de Saddleback le ofrece al estudiantado servicios de enfermeras, doctores/as, sicólogos/as, y consejeros/as que le ayudarán con su salud tanto física como emocional, para ayudarles a tener éxito tanto personal como educacional.

Se incluyen servicios limitados de doctores/as, de consejeros/a en caso de una crisis emocional, exámenes de visión y audición, primeros auxilios, algunas vacunas, exámenes de sida, de enfermedades venéreas y de tuberculosis. También durante el año escolar, se informará acerca de los riesgos del uso de drogas y alcohol y otros comportamientos de alto riesgo.

La enfermería cuenta con información de varios temas tales como asalto sexual y cómo reportarlo (California Education Code, Section 67385).

Las consultas médicas son gratis y los exámenes de laboratorio, vacunas y algunas medicinas son de bajo costo. Para obterner más informacion, llame al 949-582-4606 ó vaya a la página www.saddleback.edu/ss/shc

Matrícula (Exámenes de inglés y matemáticas)

La Oficina de Matrícula ofrece servicios que incluyen exámenes de inglés y matemáticas, inglés como segunda lengua (ESL), análisis de los resultados de los exámenes, consejo académico y orientación análisis de reporte de calificaciones de otras instituciones.Está ubicada en el edificio de servicios para estudiantes, salón 225B. Nuestro número de teléfono es 949-582–4970.

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 calificar, llene una solicitud en la Oficina de Ayuda Financiera (SFAO), localizada en el Edificio de Estudiantes "Student Services Center", oficina 106. 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 inglés y matemáticas.

La oficina está en el Edificio de Servicios para Estudiantes, salón 126. El número de teléfono es 949-582-4620.

Tutoría (LAP)

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

Admission Requirements

Eligibility for Admission

Admission to Saddleback College is open to anyone who is a high school graduate, has a High School Equivalency certificate, or is 18 years of age or older and shows evidence of being able to benefit from instruction.

Students enrolled in elementary through high school may attend Saddleback College as special admits. Special admits may enroll in the classes recommended by their school principal and are required to submit a completed "Special Admission Request Form" (available online) each semester. Students in grades 9-12 are limited to 11 units per semester; K-8 students are limited to 6 units per semester. K-12 students are not permitted to enroll in Kinesiology (PE) classes. Questions regarding admission to Saddleback College may be sent via e-mail to scadmissions@saddleback.edu or by calling the Office of Admissions and Records at 949-582-4555.

Application for Admission

Students who are enrolling in Saddleback College for the first time or are returning after an absence of a semester or more (not including summer) must submit an application for admission online. Computers and assistance with the application are available in the Office of Admissions and Records. The online application is available at www.saddleback.edu/admissions/

The application for admission is available online beginning the following dates:

Fall semester:	April 1
Spring semester:	October 1
Summer semester:	April 1

Residency

The Office of Admissions and Records determines the residence status of all new and returning students for nonresident tuition purposes. Responses to the Application for Admission and, if necessary, other evidence furnished by the student are used in making this determination. A student who fails to submit adequate information to establish a right to classification as a California resident will be classified as a nonresident.

Establishing Residency

"Nonresident students" are those who have not established residency in the state for at least one year prior to the residence determination date or those who hold certain non-immigrant visas which preclude them from establishing residency. Foreign students admitted to the United States under student visas are classified as nonresidents.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions.

Legal residence may be established by an adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The residence determination date is that day immediately preceding the opening day of instruction each semester during which the student proposes to attend classes at Saddleback College.

The steps necessary to show California residency intent will vary from case to case. Included among the steps may be: filing resident California state income tax forms on total income, registering to vote and voting in elections in California, ownership of residential property or continuous occupancy or renting of an apartment on a lease basis where one's permanent belongings are kept, maintaining active resident membership in a California professional organization(s), maintaining California vehicle plates and operator's license, maintaining active savings and checking accounts in California banks, for military service personnel -maintaining permanent military address in California on the Leave and Earning statements (L.E.S.). The burden of proof to clearly demonstrate both physical presence and intent to establish California residence lies with the student.

Exemptions

The California Education Code allows certain non-residents an exemption from non-resident tuition. The criteria for these exemptions are listed below. Students who believe they are eligible for an exemption based on any one of the following criteria should inform the Office of Admissions and Records when they apply.

- Student under two-year care and control of adult
- Dependent of member of the U.S. armed forces
- Member of the U.S. armed forces
- Armed forces members remaining in the state following discharge
- Dependent of California resident of more than one year; parent residing in California for one year and contributing court ordered support for student
- Graduate of California school operated by the United States Bureau of Indian Affairs
- Student holding teaching credential; other conditions apply
- Employee or child or spouse of employee of institution or state agency
- Student attended a California high school at least 3 years and graduated from a California high school or earned an equivalency (GED) in California (AB 540)

Other conditions may be required to meet these criteria. Please call 949-582-4344 for more information.

Reclassification:

Reclassification to resident status must be requested by the student. Financial independence during the current year and preceding two years will be considered at the time the student requests reclassification. Information regarding requirements for reclassification is available in the Office of Admissions and Records. Students should allow ten working days after submitting their documents for a decision.

International Students (F1–Visa)

To be considered for admission to Saddleback College, international students (residents of countries other than the United States who hold or are applying for student or F-1 visas) are required to submit the following documents:

1. Admissions application and a non-refundable fee of $54.
2. A one-page personal statement on your current educational goals and goals upon completion of studies at Saddleback College. Describe the reason Saddleback College was selected for the pursuit of higher education.
3. A recent Test of English as a Foreign Language report with evidence of at least a score of 470 on paper base test, 150 computer base, and 52 internet base. In addition Saddleback College **will** consider the Society for Testing English Proficiency STEP for students from Japan with evidence of at least 2A level score, and an acceptable placement of English as a Second Language administered at Saddleback College
4. Evidence of academic achievement equivalent to an American high school education. Official transcripts and a notarized/official translation are required.

5. Official bank certification of sponsor's available funds. Bank certification forms and sponsorship forms are available at the Office of International Students and at www.saddleback.edu/iso/.
6. A letter of recommendation from an instructor or school official addressing the applicant's character and motivation.

Students transferring from other institutions in the United States must submit the following in addition to the above requirements:

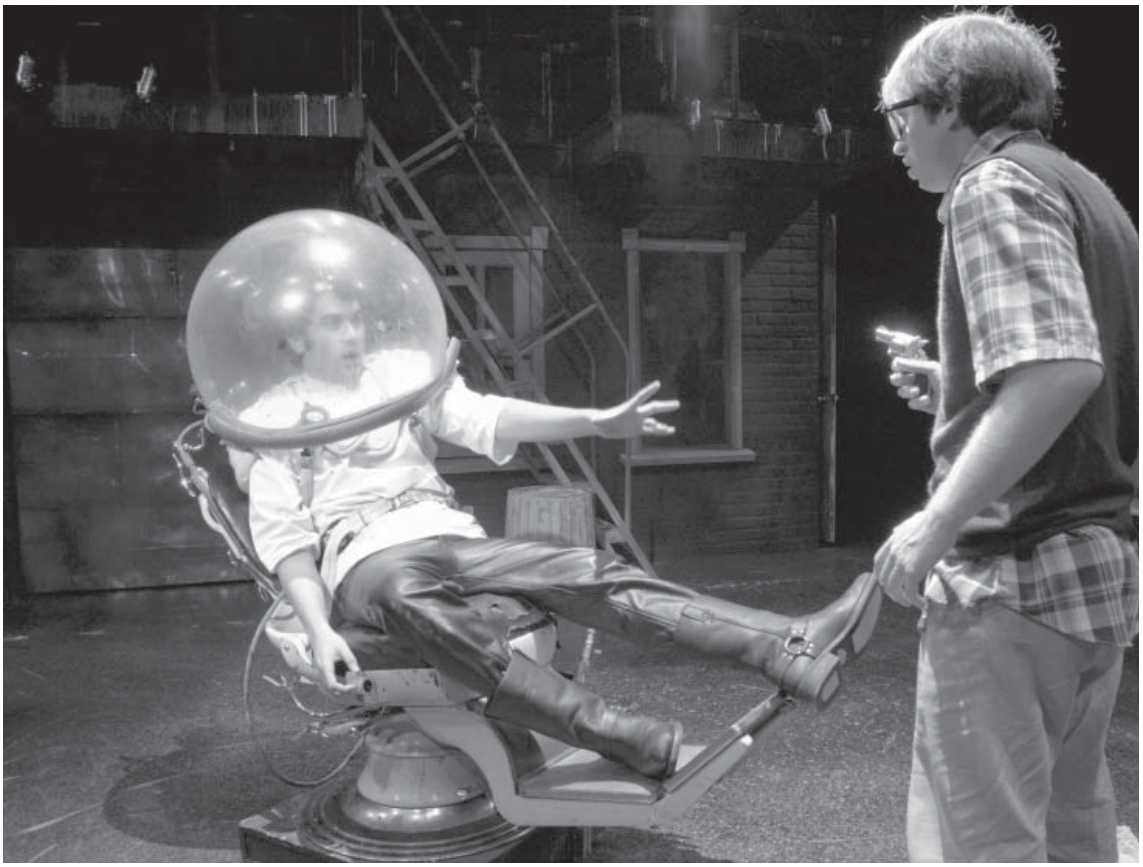
1. Transfer form completed by prior institution verifying the student's current status.
2. Copy of the SEVIS I-20 provided by prior institution.
3. Copy of passport information (i.e., name, photo, date of birth, etc), visa, and form I-94.
4. Official transcripts from prior institutions attended in the United States.

All documents must be received by the Office of International Students 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 Students, Saddleback College, 28000 Marguerite Parkway, Student Services 102, Mission Viejo, California 92692), or online www.saddleback.edu/iso/. For student fees, refer to the Saddleback College International Students 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 Students at 949-582-4637.

Note: The Nursing Program at Saddleback College is an impacted program, therefore students who hold F-1 (student visas) will not be considered for admission to the Nursing Program.



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 policies and procedures which are in the best interest of the student. Matriculation is a process that brings the student and Saddleback College into a partnership.

In this partnership 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 the 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

Matriculation is designed to assist students achieve their educational goals at Saddleback College. The process includes assessment, orientation, counseling/advisement, and follow-up services. Students required to matriculate must complete the following steps prior to registering for classes.

1. **Assessment** may include, but is not limited to, information regarding the student's English language and reading proficiency, math skills, educational goals, academic history, and possible need for special services.
2. **Orientation** provides students with information about the many resources available at Saddleback College. Students learn about student services, special programs, and other student support programs. They are introduced to MySite, the student individual information system, and to the procedures for registration.
3. **Counseling/Advisement** assists students to determine their educational goals, plan their first semester schedule, and prepare a "student educational plan." Students learn about transfer, degree requirements, and vocational programs.

Follow-Up services monitor the students' progress throughout the academic year. Students on either academic or progress probation are notified of their academic standing so they can seek assistance from Division of Counseling and Special Programs. The Early Alert Program notifies students of their academic standing each semester.

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 procedures may be different.

The Matriculation Office is located in the Student Services Center (SSC) Room 225B. You may call us at 949-582-4970 or visit our website at www.saddleback.edu/matriculation.

Exemptions

There are special circumstances for which a student may be exempt from the matriculation process. If you would like to determine if you are eligible for exemption please contact the Matriculation Office at 949-582-4970.

Retest Policy

Reading: Students may repeat the Nelson-Denny test in three months or during their last semester before graduation.

English: Students may retake the English assessment every 12 months.

Mathematics: Students are allowed to retake the same level math test once every three months. Students may take a different level math test at the next available testing session.

Alternative Matriculation Services

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

1. English is not their primary language, and the student does not feel proficient enough in English to take the regular English Placement Test

   OR

2. They have a disability which creates educational or functional limitations that require academic accommodations.

All students are welcomed 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 in order 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 prior to registering for any course with these restrictions.

Prerequisite:

Mastery of a certain body of knowledge is necessary for students 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 "P" (formerly CR) in the prerequisite course. Grades that are not acceptable are "C-", "D," "F," or "NP (formerly 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).

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 "P" (formerly CR).

   Note: Grade of "C-" is not satisfactory.

   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 "P" (formerly CR).

   Note: Grade of "C-" is not satisfactory.

   OR

3. Complete an assessment exam at Saddleback College for English and/or math.

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 assessments and placements.)

   Students must bring copies of their scores or transcript(s) to the Matriculation Office in the Student Services Center, Room 225B, to waive the placement test portion of the assessment.

   To clear an English or math prerequisite using a transcript: Present a copy of college transcript(s) and college catalog description(s) to the Matriculation Office for evaluation. Complete the College Prerequisite 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 submit evaluations a minimum of two weeks prior to your 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.

Course Prerequisite and Corequisite Appeal Procedure

State regulations require the enforcement of prerequisites. A student may file an appeal based on the following criteria.

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.

Students wishing to appeal a course placement based on one of the criteria listed above must file an Appeal Petition which can be picked up in the Matriculation Office, SSC 225 or in the appropriate division office. 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 higher level class.

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 take the Writing Sample. During the Writing Sample session students will complete an Appeal 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. 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 225B.

Mathematics Appeal Process

A student who desires placement in a higher level mathematics course than resulted from the usual assessment process must complete an "Appeal Petition" and return it to the Mathematics, Science, and Engineering Division Office, SM 334. The following documents must be attached to the petition:

1. The student's high school transcript.
2. College transcript and college catalog description of each mathematics courses on the transcript.
3. The results of the appropriate Saddleback College mathematics placement test. Students seeking enrollment in MATH 251 must complete either the level 1 or level 2 mathematics placement test. Those seeking enrollment in MATH 253 or 255 must complete either the level 2 or level 3 mathematics placement test. Students who wish to enroll in MATH 7, 8, 9, 10, 11 or 124 must complete the level 3 placement test. All other students must complete the level 4 mathematics placement test.

Once the completed Appeal Petition with required attachments has been submitted to the Mathematics, Science, and Engineering Division office, SM 334, the student will be allowed to enroll in the higher level course if space is available.

An Appeals Committee will meet to review the Appeal Petition and the attached supporting documents within five working days. If the appeal is approved the student will be allowed to remain in the higher level course. If the appeal is denied the student will be disenrolled from the higher level course.

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 Office of the Vice President for Student Services, SSC 107.

Registration for Classes

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 with the above-referenced section of Title 5.

Registration for Classes

Students may register online or in person. Telephone registration is available for enrollment in Emeritus Institute classes only. Payment is due by the deadline stated on the internet or telephone session. Payment for in-person registration is due at the time of enrollment. After selecting classes and paying all required fees, registration is completed. Consult the Class Schedule for the most current registration information. Students must have officially enrolled and paid for classes during the registration period in order to receive a grade for the course. 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.

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 Internet registration. Telephone registration is limited to enrollment in Emeritus Institute classes only. Students who apply online receive their registration permits by email. 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 submitted. 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 may view their assigned registration period at the MySite web portal. Registration permits are not mailed to continuing students except for students enrolled in Emeritus Institute classes. Students are able to access their information online. 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 records will automatically be updated to reflect that change unless the student notifies the college in writing that the change should not be made.

Repeating Courses

(Also see Academic Regulations and Announcement of Courses sections of this catalog)

The number of repetitions allowed for each course is listed in the college catalog following the course description. Students may not exceed the number of course repetitions as determined by state regulations. Students registering in a course not identified as repeatable or repeating a course more often than permissible will be withdrawn from the course.

Adding Courses

Students may add open classes through the day prior to the start day of the class. Once the class has started or has become full, students must request permission to add the course from the instructor. If permission is given, an Add Permit code will be issued. Students are required to add the course on-line or in-person by the expiration date on the Add Permit Code form. Payment is required at the time of enrollment. Students who miss the deadline to add are encouraged to enroll in late-starting classes.

Withdrawal From Courses

It is the student's responsibility to officially withdraw from courses for refund purposes and to avoid receiving a substandard grade. Students are limited to a total of four withdrawals in a given course. Students may withdraw from courses:

- online through MySite
- by telephone for Emeritus Institute classes only, when the system is available

Although it is the student's responsibility to withdraw from courses, instructors have the authority to drop students who miss the first class meeting.

Deadlines for Dropping or Withdrawing from Classes

In accordance with state regulations, the deadlines for grading purposes are as follows:

- 30 percent of the course based on ticket number-drop without a "W" on the transcript
- 65 percent of the course based on ticket number-drop with a grade of "W" on the transcript

It is the student's responsibility to consult the online class schedule for specific course deadlines as they may vary.

NOTE: Only student initiated or no-show drops completed prior to the refund deadline are eligible for refund consideration. (See Student Fees/Refunds/Credits for further information regarding refunds.

Student Fees/Refunds/Credits

All fees are subject to change

Associated Student Body (ASB) Fee

The $10 ASB stamp 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. All students are encouraged to purchase the ASB stamp fee and participate in the variety of programs and services it provides. The ASB fee is non-refundable. The ASB stamp fee can be purchased in SSC 211, in the Game Room.

Enrollment Fee

The Enrollment Fee is $20 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 $17 per regular semester and $14 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 who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization
2. 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 $30 per semester and $15 for Summer or $60 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 $5.00 for Summer. 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.

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/Verification 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 24 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).

Transcript and enrollment verifications may be requested online by choosing "transcripts or verification" from the Office of Admissions and Records website a www.saddleback.edu/admissions/. Students may also complete the appropriate forms in the Office of Admissions and Records or submit a written request by mail.

Written requests must include full name (the name used while attending Saddleback College), birth date, social security number, student I.D. number, and the address where the transcript and/or verification is to be mailed. 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 Student Payment 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 $54 at the time the application is submitted and each time an application is submitted. Non-resident/non-citizen students who can validate asylee/refugee status or who are evaluated to have a financial hardship may be exempt from this fee.

•Capital Outlay Fee

Non-resident students who are citizens and residents of a foreign country will be charged an additional fee of $25 per unit at the time of registration. Non-resident/non-citizen students who can validate asylee/refugee status or who are evaluated to have a financial hardship may be exempt from this fee.

•Tuition Fees

Non-resident students will be charged a tuition fee of $190 per semester unit for the 2009-2010 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/Account Credits

Student must officially drop classes through on-line, telephone or in-person registration within the established refund deadline dates in order to be eligible for a refund of fees paid. There are no refunds for classes added or dropped after these refund deadline dates.

It is the student's responsibility to drop classes prior to the refund deadline date eo ensure a refund. *After the refund deadline date, students who drop classes, or students dropped from classes by instructors, or students dropped from classes due to non-payment, are NOT entitled to a refund of those fees.* An exception to this regulation is when the college cancels the class. In this instance, fees charged for the cancelled class will be refunded.

Dropping classes within the refund deadline dates will generate a credit on the student's account. These credits can be kept on the student's account, or can be refunded. Refunds are not automatically sent to students. They must be requested by submitting a completed refund request form to the Student Payment Office. These forms are available in the Student Payment Office or on-line. To access refund forms on-line, go to www.saddleback.edu/spo and click on the refund form link.

Money in a student's account is considered the student's property, and is returned only to the student. The only exception is when the funds were provided by an organization which the college has an existing refund return policy with, such as the California Department of Rehabilitation.

Refund deadline dates are different for different classes. The refund deadline date for each class can be found in the details section of the class schedule on the homepage of the college website. Please allow 2 weeks for processing credit card refunds and 30 days for processing check refunds. Additional information on refunds is available on the Student Payment Office web page, which can be found on the college website as noted above. Students can also call the Student Payment Office at (949) 582-4870 for additional information.

There are no refunds for classes added or dropped after the class refund deadline dates. The refund deadline date for each class can be found in the details section of the class schedule on the homepage of the college website.

Associated Student Body (ASB) Fee Refund/Credits

The Associated Student Body (ASB) stamp fee is non-refundable.

•Enrollment Fee Credits

Students are eligible for an enrollment fee credit if the class is dropped prior to the published refund deadline date for that class, or it the class is cancelled by the college.

•Health Fee Credits

Students are eligible for a health fee credit only if all on-campus classes are dropped prior to the applicable deadline date for each class, or if the student's class(es) have been cancelled by the college.

•Material/Lab Fee Credits

Students are eligible for a material/lab fee credit if the class is dropped prior to the refund deadline date for that class, of if the class is cancelled by the college.

•Parking Fee Credits

Credits on parking fees will be given only when all of the following conditions are true:

1. When a class is canceled and the student is not attending any other classes on campus during the semester, or if the student officially withdraws from all of their classes during the first two weeks of a regular term, or during the first week of eight-week terms.
2. The student Parking Decal is turned in to the Campus Police Department. During the first two weeks of a regular semester or during the first week of an eight-week session.

•Non-Resident Tuition Credits

A request for credit of non-resident tuition may be made in any of the four categories listed below:

1. Non-resident tuition fees collected in error. In such cases, 100 percent of the non-resident tuition will be credited.
2. Non-resident tuition fees refundable as a result of the cancellation of a class or some similar action on the part of the college, clearly beyond the control of the student and for which the fees have been paid. In cases of cancellation of a class, 100 percent of non-resident tuition will be credited.
3. Non-resident tuition fees refundable as a result of a student's reduction of units prior to the classe(es) refund deadline date.

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 and Responsibility for Kids (CalWORKS)

The CalWORKS program provides counseling, and support services such as referrals for childcare, as well as work experience/work study opportunities for students currently receiving TANF (Temporary Aid to Needy Families) and CalWORKS benefits. This program assists students preparing for immediate and successful employment. CalWORKS is located in the Student Services Center, Room 126. For more information, please call 949-582-4207.

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 211C. Reservations are necessary. Please call the Outreach Department 949-582-4218 to schedule a tour.

Center for Career and Life Development (CCLD)

CCLD services includes: Career Guidance Services, Job Services, and Re-Entry Services. The CCLD provides a comprehensive approach to career and life planning. The CCLD is located in the Student Services Center, Room 140. Individual assistance is by appointment. Lab and library resources are available when groups are not scheduled. Additional services and resources are available on our website. Visit www.saddleback.edu/ss/ccld/. Appointments can be scheduled by calling (949) 582-4575.

Career Guidance Services are 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, free or at a nominal fee.

Job Services assists students and recent graduates with resume writing, interview preparation, and job search techniques. Job services utilizes web-based programs including Gaucho Jobs, online student employment system, Perfect Interview (the online interview training system), and social media to connect students with current tips, techniques, and opportunities. Campus-wide Career/Job fair events are also held annually. Workshops and presentations are held at the CCLD, in classes, and campus club meetings. Individual appointments are available.

Re-Entry Services 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 and referral to community resources, workshops, support groups, scholarships, and a yearly conference. The program is particularly committed to expanding community awareness of opportunities for those who are returning to complete educational training or are seeking employment.

Child Development Center

The Child Development Center offers educational opportunities and services primarily for registered pre-school children of Saddleback College students. Faculty and staff of SOCCCD and 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 fully toilet-trained, a minimum of 2.6 years and may remain in the program up to their entrance into kindergarten.

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 faculty and staff of SOCCCD and community (non-student) 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). For more information call 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. Online advising is available at www.saddleback.edu/counseling/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 *80 on any on-campus payphone to make arrangements for a security escort.

Extended Opportunity Programs and Services (EOPS)

EOPS is a state-funded program which serves students who are educationally and financially-disadvantaged. A main objective of EOPS is to insure participants equal access to success while achieving a certificate, Associate of Arts or Science (AA/AS) degree, and/or meeting four-year university transfer requirements. This special program provides services that assist qualified students in overcoming obstacles to college education. These services may include academic, career, and personal counseling; book service; priority registration; tutoring; college and financial aid application assistance; 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 for information

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 website at www.saddleback.edu/eops/eopscare.

Student Payment Office

The Student Payment Office is located in the Administration and Governance Building, Room 131. This office disburses financial aid checks; processes refund requests; and collects fees, fines, deferral payments, and returned check fees. For questions regarding student account payments, please contact the office between 8 a.m.- 7:15 p.m. Monday -Thursday, and 8 a.m.- 4:45 p.m. on Friday at 949-582-4870 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 and coffee/food carts are located throughout the campus. Students' suggestions for food service may be submitted through participation on the Food and Beverage committee, Student Development Office, or directly to the cafeteria manager. Catering of special events is also offered by the cafeteria.

Health Services

The Student Health Center provides health care and personal counseling to all students enrolled in on-campus classes during the current semester in order to facilitate the physical, emotional and social well-being of students in ways that will increase their potential for educational success.

A team of health professionals comprised of physicians, registered nurses, and psychologists and counseling interns provides care. Services include limited medical intervention and treatment, personal and crisis counseling, general health assessment and education, vision and hearing screenings, emergency first aid, insurance for college-related injuries, limited immunizations, and HIV, STD, and TB testing. Special programs and activities conducted throughout the year address issues related to substance abuse and other high-risk health behaviors.

The student health fee is state mandated for all students who take on-campus classes and may be voluntarily paid by student taking off-campus or distance education classes who want to use these services.

The Student Health Centers maintains literature on a wide variety of health topics, including the Saddleback College publication, *Sexual Assault Education, Victim Survival Guide and Campus Reporting Protocol* (California Education Code, Section 67385).

Visits with our health care providers are free. Charges for lab tests, vaccines, and medications are available at a very low cost. For more information, call 582-4606 or check out our web page at www.saddleback.edu/ss/shc.

Interdisciplinary Computer Center

An interdisciplinary computer center located in Library , Room 111 is free to all students. Call 949-582-4441 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 Students Office

The International Students Office provides services to international students who hold F-1 (student visas) by assisting them in the admissions, assessment, and orientation processes and with home-stay and visa applications as well as in the preparation of documents required by the United States Citizenship and Immigration Services. The International Students Office also coordinates events on campus to promote global awareness and cooperates with community organizations in international friendship programs. The office is located in Student Services, Room 102. For more information, 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-skill 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 website at www.saddleback.edu/lap.

Library Services

The James B. Utt Memorial Library's mission is to assist students and faculty with their research and personal information needs. The collection of approximately 86,000 volumes is supplemented by thousands of hardcopy and electronic publications (periodicals and e-books), audio-visual aids, and reserve materials. The online catalog reflects the collections of both Saddleback and Irvine Valley College Libraries, which are available to students at both campuses.

Library hours are Monday-Thursday, 8 a.m. to 9 p.m., Friday, 8 a.m. to 4 p.m., and Saturday, 11 a.m. to 5 p.m. For more information visit our website at www.saddleback.edu/library, or call 949-582-4314.

Library Computers

Computer workstations for educational and research use are available to currently enrolled district students on the main floor of the library and in the Interdisciplinary Computer Center in LIB 111. These computers access library databases, MySite, and Microsoft Office software.

Borrowing and Renewing Materials

District students, faculty, and staff may borrow circulating materials with a valid photo ID. Valid users may check out up to nine items in the circulating collection for a period of three weeks. Items (not overdue or for which there is a hold by another user) may be renewed once, in person or by phone.

Fees, Fines, and Holds

Overdue items result in a "hold" on student records that prevents students from registering, adding, dropping classes, and/or receiving grades, transcripts, or diplomas (California Education Code §72337). To remove the "hold," a $5 fee will be charged for each overdue item. Fees for lost or damaged items will include the cost of the item plus a processing fee of $10. Fines for some overdue reserve materials will include a per day fine of $5 to a maximum of $150.

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 determine eligibility. Students with a disability who believe they may qualify for a course substitution should contact a Special Services (DSPS) counselor or specialist in SSC 113.

The following support services are available for eligible students at Saddleback College: academic, personal, and career counseling; priority registration; accommodated testing; mobility orientations and campus-accessibility maps; notetaking, reader, and transcription services; printed enlargement; alternative media production; 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 kinesiology (formerly 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 949-582-4249 or Telecommunication Device for the Deaf 949-582-4833 or visit our website at www.saddleback.edu/dsps

Any concern regarding access to programs and services should be directed first to the Director of Special Services (949-582-4885), second to the Dean of Counseling and Special Programs (949-582-4573) and finally, if not resolved, to the Vice President of Student Services (949-582-4567) who is the 504 Officer/ADA Coordinator, 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 and Scholarship Office (SFASO) 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 complete steps one through three on the application for financial aid which is available at www.saddleback.edu/fao. 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 and verified, 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 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 SFASO.
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 and complete required file documentation.

Financial Assistance Programs offered through Saddleback College include the following:

Federal Pell Grant

Board of Governors Fee Waiver Program (BOGFW)

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 (Both subsidized and unsubsidized)

Saddleback College Emergency Loan Program

Academic Competitiveness Grant (ACG)

California Chafee Grant Program

Child Development Grant 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 949-582-4860.

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 IDs

Student photo for IDs can be taken in Admission and Records during normal busineess hours. To be issued your one-time permanent photo ID, you must have your student number, be currently enrolled, have Saddleback College as your college of record, and bring a picture ID for verification (e.g., driver's license or passport). The first student ID is free. All replacement IDs are $7.50, paid in the Student Payment Office, Administration and Governance Building Room 131. Your student ID is used for college services including the library. If you have any questions, please contact the Student Development 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. Assistance with online applications for admission to California State University (CSU) and University of California (UC) is available in the Transfer Center. The Transfer Center sponsors mini-fairs each semester, 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. Preparing for a Career in Teaching (PACT) provides counseling and resources for future teachers. The Teacher Preparation Pipeline Grant (TPP) offers field experience and a transferable teaching methodology class in the Career Technical Education (CTE) area. Resources available for student reference are college catalogs, articulation agreements, online computer resources, and transfer counseling. The Transfer Center office is located in the Student Services Center, Room 139. For more information, phone 949-582-4328 or visit our website at www.saddleback.edu/transfer or email tco@saddleback.edu.

Veterans Administration (VA) Education Benefits

The Veterans Office provides assistance to students by completing the paperwork required for VA education benefits. Students who qualify for VA education benefits are encouraged to take advantage of their entitlement. In addition to providing education benefits to veterans, 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 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.

The Tuition Assistance (TA) program for active duty military personnel is processed through the Veteran Office. Active-duty military personnel using the TA program must submit a Military Tuition Assistance form to the Veterans Office. This form must be signed by the person's Commanding Officer, and by the base Joint Education Officer. This form is available on-base at the base Education Office.

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 Alumni Association Office at 949-582-4284.

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, uniting 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 into the various decision-making bodies is relevant, necessary, and welcomed. The Associated Students have adopted a constitution which establishes 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 Inter-Club Council 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 both Associated Student Government 949-582-4517 and Student Development Office 949-582-4616, Student Services Center, Rooms 207 and 210 respectively.

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 Stamp

The Associated Student Body provides an excellent program of activities and services. The funding for this program comes, in part, from the sale of the ASB stamp, which students are encouraged to purchase during registration. This stamp provides the holder with free admission to athletic events as well as, special discounts on many other college events. The stamp can be purchased online and at the Recreation Room ticket office, SSC 211, during posted hours. The stamp is placed on the ASB student ID when picked up from the Recreation Room, SSC 211. For additional information, please contact Student Development, SSC 210 at 949-582-4299.

Athletics and Related Activities

Saddleback College fields 19 intercollegiate athletic teams which compete in 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 and diving, tennis, track and field, 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 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, SSC 210. College clubs include Alpha Gamma Sigma (Honor Society), Biological Society, International, Psychology, and many others from which to choose.

An Inter-club Council (ICC), consisting of representatives from each club, exists to coordinate events and activities and to share ideas. A "Clubs Information Week" is held near the beginning of each semester. Further information is available in SSC 210.

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 and are supported through the sale of ASB stamps and ASG funding.

Fine Arts

The Fine Arts program at Saddleback College is the place where the right brain gets to exercise and no constraints are placed on the imagination. As one of the largest and most progressive community college programs nationwide, Saddleback College prepares graduates for careers in every aspect of the visual and performing arts. Instruction also is designed to prepare students for transfer to four-year schools, as well as for employment in a specialized field upon graduation. Our major academic programs are Art, Music, Photography, Speech, and Theatre, and this year we are proud to introduce an Entertainment and Theatre Technology certificate curriculum. This certificate program provides students with career preparation for entry-level positions in the professional entertainment and exhibition industry. The Division's state-of-the-art studio facilities include modern ceramics, sculpture, and investment equipment, a dark room, an electronic piano lab, Pro Tools HD recording studio and soundproof practice rooms, live video and audio editing and mixing, a high-tech theatrical lighting and sound system with intelligent fixtures, and Mac-platform design/drafting and imaging computers.

Students are given the opportunity to audition and perform in several choral and instrumental music ensembles and five student theatrical productions per year. Our 405-seat McKinney Theatre provides the largest performance space in the area featuring recently upgraded state-of-the-industry lighting and sound technology allowing production students hands-on experience with the same quality equipment used in the work force. The Division is proud of its comprehensive Art History curriculum as well as a variety of two- and three-dimensional Studio Art classes. The Photography program provides experience in both the traditional darkroom setting and state-of-the-art digital imaging. In addition, the Art Gallery features student, faculty and international guest artist exhibitions, as well as instruction in gallery display/exhibition, and a yearly student art sale. Students can compete in speech and debate tournaments on a national level as part of an Intercollegiate Forensics team. Saddleback College Fine Arts students receive valuable "real world" experience at the undergraduate level. For more information on academic programs, visit our website at www.saddleback.edu/arts or call 949-582-4747.

Foundation

Gifts to benefit Saddleback College and students may be made through the Saddleback College Foundation. Contributions fund….

- Scholarships
- Needed instructional equipment and supplies
- Improvement of classroom and facilities
- Innovative instructional projects and programs
- Athletic and cultural offerings

Contributions of cash, personal property, insurance, or securities are welcome.

The Foundation can establish endowments to ensure the perpetuity of gifts, bequests and gift annuities. A matching gift opportunity for scholarships endowments has been made available by the Bernard Osher Foundation. A gift annuity program allows individuals to make a gift while increasing their income and reducing their personal tax bill.

The Foundation is organized exclusively for charitable and educational purposes as a 501 (c) (3) organization of the Internal Revenue Code.

For further information or to make a gift, call 949-582-4479 or email the Foundation 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. These honor societies are national organizations with local chapters on campus.

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.

Students should note the difference between these honor societies and the Saddleback Honors Program. The Honors Program provides advanced coursework and transfer opportunities to qualified students.

For further information about these societies or the Honors Program, contact the Honors Program Office (LIB 317) at 949-582-4853.

Media and Publications

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 magazine, "Orange Appeal" 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 English students. Once yearly, the ESL (English as a Second Language) department produces "International Voice", a compendium of student-written essays.

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 in accordance with the Code of Conduct set by the district Board of Trustees (AR 5401). 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

In compliance with California Education code Section 66300 and 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.

Students may be disciplined for one or more of the following causes related to college activity or attendance:

A. Continued disruptive behavior, continued willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, district or college personnel.

B. Assault, battery, or any threat of force or violence upon a student, district or college personnel, or an authorized college visitor.

C. Willful misconduct resulting in injury or death to a student or college or district personnel or an authorized college visitor, or willful misconduct resulting in cutting, defacing, theft, or other injury to any real or personal property owned by the District, college personnel, or students in attendance at the colleges or programs of the District.

D. The unlawful use, sale, or possession on district property of or presence on district property while under the influence of any controlled substance or any poison classified as such by state or federal law.

E. Willful or persistent smoking in an area where smoking has been prohibited by law or by policy of the Board of Trustees or administrative regulation.

F. Disorderly, lewd, indecent, or obscene conduct on district-owned or controlled property or at district sponsored or supervised functions.

G. Sexual assault (as defined in Board Policy 5404) on any student, faculty or staff member of the South Orange County Community College District, upon on-campus or off-campus grounds or facilities maintained by the District, or upon grounds or facility maintained by affiliated student organizations.

H. The possession or use of any firearms, explosives, dangerous chemicals, deadly weapons, or other potentially harmful implements or substances while on district property or at a college-sponsored function without the prior authorization of the college President.

I. The obstruction or disruption, on or off campus, of the District's educational or administrative process or any other district function.

J. Physical abuse, on or off campus property, of the person or property of any member of the campus community or of members of his or her family or the threat of such physical abuse when related to a district or college program or activity.

K. Misrepresentation of oneself or of an organization as an agent of the District or college.

L. Soliciting or assisting another to do any act which would subject a student to discipline.

M. Theft of, or non-accidental damage to, campus property, or property in the possession of or owned by a member of the campus community.

N. Use, possession, or distribution of alcoholic beverages and/or illegal narcotics/drugs on district premises, or at district-sponsored events, or appearance on district property or at district sponsored events while under the influence of alcohol or illegal narcotics/drugs unless otherwise provided by law and district policy.

O. Unauthorized recording, dissemination, and publication of academic presentations or materials. This prohibition applies to a recording made in any medium, including, but not limited to, handwritten or typewritten class notes.

P. Actions of force or threat of force to injure, intimidate, oppress or threaten because of the other person's race, color, religion, ancestry, national origin, disability, gender, or sexual orientation, or because of the perception that the other person has one or more of these characteristics.

Q. Academic dishonesty, including, but not limited to falsification, plagiarism, cheating or fabrication, which compromises the integrity of an assignment, a college record or a program.

1. Falsification involves any conduct in academic work, records or programs that is intended to deceive, including, but not limited to, the following acts:
   a. forging signatures on official documents such as admissions cards and financial aid applications.
   b. changing or attempting to change official academic records without proper sanction.
   c. misrepresenting or falsifying successful completion prerequisites.
   d. providing false information, such as immigration materials, during the admission or matriculation process.
   e. falsifying one's identification or falsely using another identification.
   f. logging in or otherwise gaining access to a computer, computer network or protected web site using the password or identity of another.
   g. citation of data or information not actually in the source indicated.
   h. including in a reference list of works cited a text or other information source which was not used in constructing the essay, paper or other academic exercise.
   i. submission in a paper, lab report or other academic exercise of falsified, invented, or fictitious date or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence.
   j. submitting as the student's own work any academic exercises (e.g., written work printing, sculpture, etc.) prepared totally or in part by another.
   k. taking a test for someone else or permitting someone else to take a test for a student.
2. Plagiarism is any conduct in academic work or programs involving misrepresentation of someone else's words, ideas or data as one's original work, including, but not limited to, the following:
   a. intentionally representing as one's own work the work, words, ideas or arrangement of ideas, research, formulae, diagrams, statistics, or evidence of another.
   b. taking sole credit for ideas and/or written work that resulted from a collaboration with others.
   c. paraphrasing or quoting material without citing the source.
   d. submitting as one's own a copy of or the actual work of another person, either in part or in entirety, without appropriate citation (e.g., term-paper mill or internet derived products).
   e. sharing computer files and programs or written papers and then submitting individual copies of the results as one's own individual work.

f. submitting substantially the same material in more than one course without prior authorization from each instructor involved.

g. modifying another's work and representing it as one's own work.

3. Cheating is the use of any unauthorized materials, or information in academic work, records or programs, the intentional failure to follow express directives in academic work, records or programs, and/or assisting others to do the same including, but not limited to, the following:

a. knowingly procuring, providing, or accepting unauthorized examination materials or study aids.

b. completing, in part or in total, any examination or assignment for another person.

c. knowingly allowing any examination or assignment to be completed, in part or in total, for himself or herself by another (e.g., take-home exams or online assignments which have been completed by someone other than the student).

d. copying from another student's test, paper, lab report or other academic assignment.

e. copying another student's test answers.

f. copying, or allowing another student to copy, a computer file that contains another student's assignment, homework lab reports, or computer programs and submitting it, in part or in its entirety, as one's own.

g. using unauthorized sources of information such as crib sheets, answers stored in a calculator, or unauthorized electronic devices.

h. storing answers in electric devices and allowing other students to use the information without the consent of the instructor.

i. employing aids excluded by the instructor in undertaking course work.

j. looking at another student's exam during a test.

k. using texts or other reference materials (including dictionaries) when not authorized to do so.

l. knowingly gaining access to unauthorized data.

m. altering graded class assignments or examinations and then resubmitting them for regarding or reconsideration without the knowledge and consent of the instructor.

R. Violation of copyright laws

S. Violation of District Board Policies and Administrative Regulations

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 Matters Requiring 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).

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.

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 121 or at www.saddleback.edu/asenate/documents_resources_links.

Drug-Free Workplace Policy

The purpose of this regulation is to implement the provisions of the Drug-Free Workplace Act of 1988 (Public Law 100-690, 41 U.S.C. 5151, et seq.), which requires federal grant recipients to provide a drug-free workplace.

The Chancellor shall:

1. Distribute the following statement to all employees:

   You are hereby notified that the unlawful manufacture, distribution, dispensation, possession, or us`e of a controlled substance, as defined in Schedules I-V of Section 202 of the Controlled Substances Act (21 U.S.C. 812), is prohibited in the workplace.

   You are further notified that, as a condition of your continued employment in this district which accepts federal grants, you will abide by the terms of this statement, and will notify the district of any criminal drug statute conviction (including a plea of nolo contendere), occurring in the workplace. Said notice shall be delivered no later than five (5) days after such conviction.

   The district will take appropriate personnel action, up to and including dismissal, against any employee found to have violated the provisions of this statement.

2. Establish a drug-free awareness program to inform employees about:
   a. The dangers of drug abuse in the workplace;
   b. The district's policy of maintaining a drug-free work place;
   c. Drug counseling, rehabilitation, and assistance programs available to eligible employees through the Employee Assistance Program; and
   d. The penalties that may be imposed by the district on employees for drug abuse violations.

Nondiscrimination and Harassment Policy

The South Orange County Community College District prohibits discrimination on the basis of race, color, sex, religion, national origin, ethnic group identification, ancestry, age, physical or mental disability, medical condition, military service, sexual orientation, marital status, pregnancy, or any other basis prohibited by law. The district is committed to providing equal opportunities for all individuals in employment and 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 in any process, position, program, service, or activity, on any basis prohibited by law.

Individuals who feel they have been subjected to discrimination or harassment, including sexual harassment, may want to file an informal complaint. [Note that using the informal process is not a prerequisite for filing a formal complaint. Any person may directly file a formal complaint as set forth below.] Individuals wishing to file informal complaints and/or seeking additional information pertaining to the district's policies and procedures should contact the Vice President of Student Services for Saddleback College, SSC Room 107, 949-582-4566.

As stated above, whenever possible, complaints should be resolved informally. If the informal process does not resolve the matter and/or if the complainant wishes to pursue formal procedures, then he or she may file a formal complaint with the Director of Human Resources located at the Office of Human Resources, 28000 Marguerite Parkway, HS/District Offices Room 316, Mission Viejo, California 92692-3635.

Harassment Policy and Complaint Procedures, Family Medical Leave Act and California Family Rights Acts Procedures, and Whistle Blower Hotline are available on the district website located at www.socccd.edu/humanresources/hr_misc.html.

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 (voice) or TDD 949-582-4833 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, HS 316, 949-582-4349 or the Vice President for Student Services, SSC 107, 949-582-4566.

Office of Human Resources
South Orange County Community College District
28000 Marguerite Parkway, HS 316
Mission Viejo, CA 92692
949-582-4349

Students may also obtain additional information about their rights or the procedure to file a charge of discrimination pursuant to federal law with the:

U.S. Department of Education
Office for Civil Rights
Post Secondary Education Division
Old Federal Building
50 United Nations Plaza, #329
San Francisco, CA 94102

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 Grievance Policy

I. General Provisions

A. Grade Grievance

By law, the instructor is solely responsible for the grades assigned; no instructor may be directed to change a grade except in certain narrow circumstances authorized by California Education Code, Section 76224(a).

B. California Education Code Section 76224(a)

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

This policy provides the procedures for challenging grades given in any course of instruction offered in the District. This policy does not apply to the following:

1. The challenge process for prerequisites, corequisites, advisories, and limitations on enrollment.
2. Student discipline.
3. Employee discipline.
4. Challenges to established district policies and administrative regulations.
5. Financial claims against the District.

II. Definitions

A. Mistake: an unintentional act, omission or error by the instructor or the college.

B. Fraud: a deception deliberately practiced in order to secure unfair or unlawful gain.

C. Bad Faith: an intent to deceive or to act in a manner contrary to law and/or a grade assigned because of a student's protected characteristics contrary to Education Code Section 66250 et. seq. (including, but not limited to, Section 66270) and Title 5, California Code of Regulations, Section 593000 et. Seq. If, pursuant to the discrimination and harassment complaint procedure it is determined that a grade was the results of discrimination or harassment the grade may be changed as a remedy for the discrimination or harassment.

D. Incompetence: a lack of ability, legal qualification, or fitness to discharge a required duty.

E. Day: Unless otherwise provided, day shall mean any day on which the District administrative offices are open for business. The deadlines contained herein may be modified by mutual agreement of the parties.

F. Student: A currently enrolled student or a former student. Former students shall be limited to grievances relating to course grades to the extent permitted by Education Code Section 76224(a) and the provisions herein.

G. Respondent: Any person claimed by a grievant to be responsible for the alleged grievance.

H. The College President: The President of the College or a designated representative of the College President.

I. Ombudsperson: The College President shall appoint an employee who shall assist students in seeking resolution by informal means. This person shall be called an ombudsperson.

III. Informal Resolution

Any student who believes he or she has a grade grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a grievance hearing, and shall attempt to resolve the problem with the faculty member with whom the student has the grievance or that person's dean or designee. If informal resolution of the problem is not possible, the student may elect to pursue a formal grievance pursuant to the procedures herein.

IV. Formal Grievance Process

A. Written Statement of Grievance

Any student who believes he or she has a grade grievance shall file a written, signed Statement of Grievance form stating the basis for the grade grievance with the appropriate dean or designee no later than 45 days after the student knew or should have known of the grade in the course. The dean or designee shall provide a copy of the written Statement of Grievance form to the affected faculty member within 5 days after the form has been filed. The Statement of Grievance must be filed whether or not the student has initiated efforts at informal resolution, if the student wishes the grievance to become official. The faculty member shall not engage in any conduct that may be construed as retaliation for filing the grievance. Filing a grievance is a protected activity.

B. Request for a Grievance Hearing

The student may request a grievance hearing after the written Statement of Grievance form has been filed. A request for a grievance hearing shall be filed with the appropriate dean or designee on a Request for Grievance Hearing form within 30 days after filing the Statement of Grievance.

The student may withdraw his/her written Statement of Grievance and/or Request for a Grievance Hearing at any time. The notice of withdrawal shall be in writing and filed with the appropriate dean or designee. The dean or designee shall notify the affected faculty member in writing within 5 days that the student has withdrawn the grievance and no further action may be taken.

C. Grievance Hearing Panel

1. The Grievance Hearing Panel shall consist of the appropriate dean or designee, a representative appointed by the Associated Student Government and a faculty member appointed by the Academic Senate.
2. Within 15 days following receipt of the Request for Grievance Hearing, the Hearing Panel shall meet to select a Chair and to determine on the basis of the Statement of Grievance whether there is sufficient grounds for a hearing.
3. The determination of whether the Statement of Grievance presents sufficient grounds for a hearing shall be based on the following:
   a. The Statement of Grievance contains facts which, if true, would constitute a grievance under these procedures and;
   b. The grievant is a student as defined in these procedures and;
   c. The grievant is personally and directly affected by the alleged grievance and;

d. The grievance was filed in a timely manner and;

e. The grievance is not, based on the allegations contained in the written grievance, frivolous, without foundation or filed for the purposes of harassment. In determining whether a grievance is frivolous, without foundation or filed for purposes of harassment, the panel shall not at this phase, consider facts outside the grievance.

4. If the Grievance Hearing Panel determines that the written Statement of Grievance does not meet each of the aforementioned requirements, within 5 days of the Hearing Panel decision, the Chair shall notify the student in writing that the Request for a Grievance Hearing has been rejected. The notice shall contain the specific reasons for the rejection of a hearing and the procedures for appeal (See Section V.A. 1 herein).

5. If the Grievance Hearing Panel determines that the written Statement of Grievance meets each of the aforementioned requirements, the Chair shall schedule a grievance hearing no later than 45 days from the decision of the Hearing Panel. All parties to the grievance shall be notified in writing by the Chair of the date, time and location of the grievance hearing 10 days prior to the grievance hearing.

D. Hearing Procedures

1. The decision of the Grievance Hearing Panel Chair shall be final on all matters the conduct of the hearing unless there is a vote of a majority of the other members of the panel to the contrary.

2. Each party to the grievance may call witnesses and introduce oral and written testimony relevant to the issues alleged in the grievance. Formal rules of evidence shall not apply. Any relevant evidence shall be admitted. The parties shall exchange exhibits and lists of witnesses 5 days prior to the hearing.

3. Unless the Grievance Hearing Panel determines to proceed otherwise, each party to the grievance shall be permitted to make an opening statement. Thereafter, the grievant shall make the first presentation, followed by the respondent. The grievant may present rebuttal evidence after the respondent's evidence. The burden shall be on the grievant to prove by a preponderance of the evidence that the facts alleged are true and that a grievance has been established as specified above.

4. Each party to the grievance may represent himself or herself or may be represented by a person of his or her choice. A party shall not be represented by an attorney unless notification is presented to the Chair 10 days prior to the date of the hearing. If one party is permitted to be represented by an attorney, any other party shall have the right to be represented by an attorney. The Chair of the Hearing Panel may continue the hearing in order to accommodate counsel upon a showing of good cause. The Hearing Panel may also request legal assistance through the College President. Any legal advisor provided to the Hearing Panel sits in an advisory capacity but shall not be a member of the Panel nor vote with it.

5. Hearing shall be closed and confidential. Witnesses shall not be present at the hearing when not testifying.

6. The hearing shall be recorded by the Hearing Panel Chair by recording or stenographic recording and this document shall be the only recording made of the proceedings. No witness who refused to be recorded may be permitted to give testimony. At the onset of the hearing the Chair shall ask each person present to identify themselves by name and thereafter shall ask witnesses to identify themselves by name. The recording shall remain in the custody of the College at all times, unless released to a professional transcribing service. Any party may request a copy of the recording at their own expense.

7. All Testimony shall be taken under oath administered by the Chair. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape recorded shall be considered to be unavailable.

E. Hearing Panel Decision

Within 15 days following the close of the hearing, the Grievance Hearing Panel shall prepare a written decision which shall include specific factual findings regarding the grievance and the specific conclusions regarding whether a grievance has been established as defined above. Where appropriate the decision shall articulate the factual basis for any credibility determinations necessary to the panel's decision. The Hearing Panel decision shall also include a specific statement regarding the relief to be afforded the grievant if any. The Hearing Panel decision shall be based only on the record of the hearing, and not on matters outside the record. The record consists of the written Statement of Grievance, any written response by the respondent and the oral and written evidence produced at the hearing.

V. Appeal Process

A. Written Statement of Appeal

1. Within 10 days following the Grievance Hearing Panel decision regarding the merits of the grievance, any party to the grievance may file a written Statement of Appeal with the College President. The written Statement of Appeal shall state the specific basis for the appeal and shall be sent to all parties.

2. All parties may submit a written response to the appeal to the College President within 10 days of the filing of the written Statement of Appeal.

3. The College President shall review the record of the hearing and the documents submitted in connection with the appeal, but shall not consider any matters outside the formal record. The College President may decide to sustain, reverse or modify the decision of the Grievance Hearing Panel. The College President's decision shall be in writing and shall include a statement of reasons for the decision. The College President's decision shall be final.

4. The decision on appeal shall be reached within 20 days after receipt of the appeal documents. Copies of the College President's decision shall be sent to all parties.

5. Within 10 days following the Grievance Panel's decision regarding whether the Statement of Grievance warrants a formal Grievance Hearing, any party to the grievance may file a written Statement of Appeal with the College President. The College President shall review the Statement of Grievance and the Request for a Grievance Hearing in accordance with the requirements for a grievance provided herein but shall not consider any other matters. The College President's decision whether to grant a grievance hearing shall be final and not subject to further appeal. The filing of an appeal pursuant to this provision shall stay all proceedings on the underlying grievance until a decision is reached by the College President. If the College President's decision is that the matter shall proceed to a hearing the time lines shall be extended by the period of time the matter was under consideration with the College President.

Catalog Rights and Continuous Enrollment (effective Fall 2009)

Catalog Rights

Because course requirements for degree and certificate completion may change from one catalog year to the next, students may establish "catalog rights" when they first take classes at Saddleback. Establishing catalog rights protects the student from being held for additional requirements that may be added to a later catalog. Policies printed in the college catalog are in effect for the academic year, Fall, Spring, and Summer.

Beginning in Fall 2009, the number of years allowed for students to complete a certificate or degree program and maintain catalog rights from when they first took classes at Saddleback College will be no more that six years .

Students who were enrolled prior to Fall 2009 shall be afforded the catalog rights from when they first took classes at Saddleback College, if they have met the standards for continuous enrollment given below.

For the purposes of meeting graduation or certificate requirements, students may elect to met the requirements of any of the following, provided they maintain continuous enrollment and meet the six year time frame for certificate and degree program completion:

1. The catalog was in effect at the time they began taking courses at Saddleback College, or
2. Any catalog that is or has been in effect during the time that they have maintained continuous enrollment before graduation, or
3. The catalog that is in effect at the time they file an application for a degree or certificate.

Continuous Enrollment

Students maintain catalog rights by maintaining continuous enrollment in the South Orange County Community College District- that is by receiving a letter grade of "A", "B", "C", "D", "F", "P"(C), "NP" (NC), "RD", "W", "MW", or "I" on their transcripts for at least one course per academic year.

Catalog rights apply only to Saddleback College graduation and program requirements. If other institutions change their requirements for entrance, graduation, satisifaction of general education patterns, or in other ways, it may be necessary for the student to meet the new requirements upon transfer, even if continuous enrollment has been maintained.

Unless otherwise requested by the student on the Petition for Graduation, the catalog used to determine eligibility will be the catalog in effect at the time the student began continuous enrollment at Saddleback College.

Documented military or medical leave will not be considered an interruption of enrollment. Absence related to an approved educational leave or for attendance at another accredited instituion of higher learning is not considered an interruption, providing the absence does not exceed two years.

Some programs require that students complete specific courses within an established time frame. In such cases, recency requirements supersede catalog rights.

Student Right-to-Know Disclosure

In compliance with the Student Right-to-Know and Jeanne Clery Act, 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 website" located at www.cccco.edu/divisions/tris/mis/srtk.

Parking

Complete parking rules and regulations are available in the Campus Police Department (Parking Lot 2).

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:

a. Red Zone - indicates no parking or stopping anytime whether the vehicle is attended or not.
b. Yellow Zone - indicates an area for loading and unloading of vehicles and the parking of service vehicles.
c. Green Zone - indicates a parking time limit of 15 minutes.
d. 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 any 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: Sunday through Saturday, 7 a.m. to 10 p.m. Students may exchange hanging 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.

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 Permit**s—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 Police 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
   $30/Fall Semester
   $30/Spring Semester
   $15/Summer Session
   $60/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
   $10/Fall Semester
   $10/Spring Semester
   $5/Summer Session
   $1/with current auto permit
   (c) Short-term Parking-- all motor vehicles
   $2.00/Day Permits can be purchased at the Daily Parking Permit dispenser machines located in lots 1, 5A, 10, and 13.
2. Parking Meters:
   (a) 1-Hour Meters—$0.50 per hour
   (b) 4-Hour Meters—$0.50 per hour

Public Transportation

The Orange County Transit District operates several bus routes to and from Saddleback College. Monthly passes may be purchased from the college bookstore. Special rates are available for the physically handicapped.

Academic Regulations

Grading Policy

In Sections 55020 to 55025 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)

Evaluative Symbol	Meaning	Grade-point Value
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing, less than satisfactory	1
F	Failing	0
P (C)	Pass (Credit) (equivalent to A, B, or C; units earned but not counted in GPA)	
NP (NC)	No Pass (No Credit) (equivalent to D or F; however, no units earned and units not counted in (GPA)	

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 Office of Admissions and Records. 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 may be submitted to the Office of 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 a symbol as authorized in this section, other than a "W." Students are limited to a total of four withdrawals in a given course.

No notation ("W" or other) shall be made on the academic record of a student who withdraws during the first 30% of the course.

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.

Petitions for this exception must be received **within the 45 day window** for grade appeal after final grades are posted for a given semester.

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.

Grade Notification

Grades are available online soon after they have been submitted to the Office of Admissions and Records. Students may view their grades on "MySite". Grades are not available by mail or telephone.

Pass/No Pass (Formerly Credit/No Credit)

Students have the option to be evaluated on a Pass/No Pass (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 Pass/No Pass option within the first 30 percent of the class by changing the Pass/No Pass option through online registration. Nursing courses may not be taken for a Pass/No Pass grade unless no other grading option is available.

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

A "Pass" (P) 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 Pass (NP) 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 "P/NP" 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 Pass/No Pass basis especially for transfer students:

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

— 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 coursework 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 "pass" (credit) basis.

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

— No Pass (NP) (No Credit) grades are considered by the South Orange County Community College District in determination of progress probation (refer to regulations describing proba-

tion/dismissal under scholarship standards).

— Students planning to graduate from the South Orange County Community College District must establish a minimum 2.0 grade-point average of 12 units in residence.

— Standards for Dean's List or other academic honors are based on letter-graded courses.

Course Repetition

(Also see Registration and Announcement of Courses sections of this catalog)

State regulations govern the number of times a course may be repeated. Students who receive a "W" (withdrawal) may repeat the course provided they have not received four withdrawals for that particular course. Students with an "Incomplete" grade in a course may not register for the course again.

Non-Repeatable Courses

Most courses are designated as "non-repeatable," and are limited to only one enrollment. However, a student who has received a substandard grade of D, F, or NP (NC), in a course taken at Saddleback College, may repeat the course again. If a student repeats the course and receives a satisfactory grade, then they may not repeat the course again. If the students repeats the course and receives another substandard grade they may repeat the course one additional time. Under no circumstances may a student repeat a course more than two times.

Repeatable Courses

Some courses in which skill development may require more than one semester may be repeated. These courses are designated with an "R" code and a number indicating the number of times the course may be repeated. This code is listed in the college catalog following the course description. If a course is identified as a repeatable course and a student earns a grade of D, F, or NP (NC), the course repeat limitations do not change.

Grade Alleviation

To alleviate a substandard grade in calculating the GPA, the student should retake the same course at Saddleback College or take an equivalent course at Irvine Vallley College. Course equivalency will be determined by Saddleback College.

A student may request to have the substandard grade disregarded in the computation of their GPA by submitting a Request for Course Repeatability Update to the Office of Admissions and Records. The previously recorded course will remain on the student's transcript and the transcript will show which course was excluded for purposes of grade-point calculation. Only the most recent course grade earned will be used in calculating the student's grade point average.

If a course is identified as a repeatable course and a student earns a grade of D, F, or NP (NC), the course repeat limitations do not change.

Mandated Training Requirement

Course repetition is permitted, without petition, in instances when such repetition is necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. Such courses may be repeated for credit any number of times, regardless of whether or not substandard work was previously recorded, and the grade received each time shall be included for purposes of calculating the student's grade-point average.

Petition for Special Circumstances

Under special circumstances, repetition of credit courses may be permitted. In order to be considered under special circumstances, the student must file a Petition for Course Repeat through the Office of Admissions and Records prior to the start of the semester. A student may request to have the original grade disregarded in the computation of their GPA by submitting a Request for Course Repeatability Update form to the Office of Admissions and Records after completion of the second enrollment.

Scholarship Standards

Dean's List

Students who achieve a grade point average of 3.25 or higher in 12 units* or 3.5 in at least 6 units of letter-graded courses in any one semester will be eligible for the honor of being placed on the Dean's List. Continued excellence in scholarship may result in graduation with honors. Check with the Office of Instruction for Dean's List certificate at 949-582-4795.

*For DSPS students full -time equivalency may differ, please contact the DSPS office at 949-582-4750.

Academic Honors At Graduation

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

Summa Cum Laude:	4.0 GPA
Magna Cum Laude:	3.75 to 3.99 GPA
Cum Laude:	3.50 to 3.74 GPA

Graduation honors are calculated using all academic work completed. This includes all work completed within the South Orange County Community College District and all work for which an official transcript has been received from other accredited institutions. In addition, in order to qualify, students must have completed 24 semester units of letter-graded work at Saddleback College.

Graduation honors will be indicated in the commencement program and on the student's diploma and transcript. However, for candidates (those students with final grades pending), the commencement program will note "candidate," as their degrees and honors have not yet been confirmed. When final grades are determined, a recalculation of grades will be completed and, if the student qualifies, the graduation honor will be noted on the degree.

Probation

•Academic Probation

A student who has attempted at least 12 semester units at Saddleback College and/or Irvine Valley College is placed on an academic probation when the earned 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 and/or Irvine Valley 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 "NP" (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 "NP" (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 at Saddleback College and/or Irvine Valley College 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 "NP" (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 (DVA). The Veterans' Office is required to notify the Department of Veterans Affairs of veterans and/or eligible dependents who complete three consecutive semesters on academic or lack-of progress probation. Also, VA students who complete three consecutive semesters on academic or lack-of-progress probation will not receive VA education benefits until they have satisfied minimum standards of progress. Please call the Veterans' Office at 949-582-4871 for details.

Readmission After Dismissal

Students who have been dismissed from 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 from consecutive terms 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 at regionally accredited colleges or universities 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 beginning the first day of classes each semester. 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.

Remedial Coursework Limit

No more than 30 semester units of credit may be awarded to a student for remedial coursework. Courses in this category include English reading and writing courses one level below transfer-level composition (ENG 1A) and mathematics courses below beginning algebra (MATH 251).

The following students are exempted from this limitation:

1 Students who are enrolled in one or more courses of English as a Second Language.

2. Students identified as having a learning disability.

The college may grant a waiver to the 30-unit remedial course limitation to any student who demonstrates significant and measurable progress toward the development of skills needed for successful enrollment in college-level courses. Waivers are given only for specified periods of time or specified numbers of units.

Students who have exhausted the unit limitation will be referred to appropriate noncredit adult-education programs.

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:

1. Student participation in officially recognized activities and sports including weight, height, and high school of graduation of athletic team members.

2. Degrees and awards received by students, including honors, scholarship awards, athletic awards and Dean's List recognition.
3. Dates of attendance.

Students who do not wish to have the above directory information released must submit a written request to the Director of Admissions, Records, and Enrollment Services.

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 Office of the Vice President for Instruction each semester. No student will be excused from any final examination without approval from the Office of 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 10B (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 August 2008. Check the schedule of classes for availability of courses designated as "Honors" in any given semester:

ANTH 1 (Biological Anthropology)
ANTH 2 (Cultural Anthropology)
ART 25 (Survey of Art History: Ancient Worlds to Gothic)
BIO 20 (Introduction to Biology)
BUS 1 (Introduction to Business)
BUS 135 (Elements of Marketing)
ECON 4 (Principles—Micro)
ENG 4 (Fiction Fundamentals)
ENG 15A (Survey of American Literature: 1620-1860)
ENG 15B (Survey of American Literature: 1860-Contemporary)
ENG 17A (Survey of English Literature: Beowulf to Romantic Movement)
ENG 17B (Survey of English Literature: Romantic Movement to the Present)
ENG 21A (World Literature—Ancient to 17th Century)
ENG 25 (Introduction to Literature)
ENG 27A (Introduction to the Novel)
GEOL 7 (Weather and Climate)
GEOL 20 (Introduction to Earth Science)
HIST 4 (World History to 1750)
HIST 9 (Diplomatic History of the United States)
HIST 11 (Perspectives of Peace Studies)
HIST 12 (Revolutions and Revolts)
HIST 16 (History of the United States to 1876)
HIST 17 (History of the United States Since 1876)
HIST 19 (United States Since 1945)
LIB 101 (Information Competency Skills)
MATH 3A (Analytic Geometry and Calculus)
MATH 26 (Introduction to Linear Alegbra)
MS 20 (Introduction to Oceanography)
PS 1 (American Government)
PS 10 (Introduction to Political Theory)
PSYC 1 (Introduction to Psychology)
PSYC 2 (Research Methods in Psychology)

Activities

The honors student participates in a variety of activities that 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 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 August 2008 transfer agreements exist with Azusa Pacific University, California State University Fullerton, Chapman University, Occidental College, Pitzer College, Pomona College, 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 ENG 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.

All application materials are available in Library 317 and must be returned to:

Honors Program
Saddleback College/Library 317
28000 Marguerite Parkway
Mission Viejo, CA 92692

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 Honors 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 website at www.saddleback.edu/ap/hon, e-mail: honors@saddleback.edu, or contact Professor Alannah Rosenberg or Jennifer Hedgecock, Honors Program Chairs, 949-582-4853.

Credit by Exam

Credit by Examination—Specific Course Credit

Currently enrolled students may qualify for credit by examination for courses in the current Saddleback College catalog for which they appear to be reasonably qualified by training or experience, and for which they have not received previous college credit, attempted credit by examination, or ever enrolled in the course. 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. 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 which will determine eligibility.
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 Pass (P) (Credit (CR) or No Pass (NP) (No Credit) 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. For AP credit to be awarded, an official score report must be on file in the Office of Admissions and Records prior to the Counselor review. Students can make an appointment to see a Saddleback College counselor for review of their AP exam scores and processing of an Advanced Placement Examination Credit Petition. Admissions and Records evaluators will assign AP Exam credit as applicable when a student applies for a degree, CSU G.E. or IGETC certification.

Credit will be given for AP exams passed with a score of 3 unless otherwise noted below:

Advanced Placement Exam	Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units	CSU GE Certification Area/Semester Units	CSU Minimum Admission Semester Units	IGETC Certification Area/Semester Units	UC Admissions Semester Units
Art History	5 units towards Fine Arts GE requirement	Area C1 or C2 3 Units	6 Units	Area 3A/3B 3 Units	5.3 Units
Art Studio	5 Units of elective Art Studio credit for either Drawing or General Portfolio [*5-unit maximum credit for both exams*]	N/A	3 Units	N/A	5.3 Units (Max for all Studio Art Exams)
Biology	Credit for BIO 20	Area B2 **and** B3 4 Units	6 Units	Area 5B **with** Lab 4 Units	5.3 Units
Chemistry	Credit for CHEM 3	Area B1 **and** B3 4 Units	6 Units	Area 5A **with** Lab 4 Units	5.3 Units
Chinese - Language & Culture	3 units towards Humanities GE requirement	Area C2 3 Units	6 Units	Area 6A & 3B 3 Units	5.3 Units
Computer Science A Exam	N/A	N/A	3 Units (Only one CS Exam may be applied)	N/A	1.3 Units
Computer Science B Exam Only	Credit for CS 1A with a score of 3. Credit for CS 1B with a score of 4 or 5.	N/A	6 Units (Only one CS Exam may be applied) Only applies if taken before F'09	N/A	2.7 Units Max
Economics - Macro Exam	Credit for ECON 20 with a score of 3 or 4. Credit for ECON 2 with a score of 5.	Area D2 3 Units	3 Units	Area 4B 3 Units	2.7 Units
Economics - Micro Exam	Credit for ECON 20 with a score of 3 or 4. Credit for ECON 4 with a score of 5.	Area D2 3 Units	3 Units	Area 4B 3 Units	2.7 Units
English - Language and Composition	Credit for ENG 1A and Matriculation placement in ENG 1B	Area A2 3 Units	6 Units	Area 1A 3 Units	5.3 Units (Max credit for both English Lang/Comp & Lit/Comp)
English - Literature and Composition	Credit for ENG 1A and 2 elective units and Matriculation placement in ENG 1B	Area A2 **and**C2 6 Units	6 Units	Area 1A **or** 3B 3 Units	5.3 Units (max credit for both English Lang/Comp & Lit/Comp)
Environmental Science	3 Units towards Natural Sciences GE requirement including lab	Area B1 **and** B3 (If taken prior to Fall 2009) or Area B1 and B3 (Regardless of when taken) 4 Units	4 Units	Area 5A **with** Lab 3 Units	2.7 Units

Advanced Placement Exam	Saddleback College AA/AS Credit Awarded towards GE, Major and/or Elective Units	CSU GE Certification Area/Semester Units	CSU Minimum Admission Semester Units	IGETC Certification Area/Semester Units	UC Admissions Semester Units
French – Language	3 units towards Humanities GE requirement	Area C2 3 Units	6 Units	Area 6A & 3B 3 Units	5.3 Units
French – Literature	3 units towards Humanities GE requirement	Area C2 3 Units (Only applies if taken before F'09)	6 Units (Only applies if taken before F'09)	Area 6A & 3B 3 Units	5.3 Units
German - Language	3 units towards Humanities GE requirement	Area C2 3 Units	6 Units	Areas 6A & 3B 3 Units	5.3 Units
Government and Politics – United States	3 Units towards Social/Behavioral Sciences GE requirement	Area D8 and US-2 3 Units	3 Units	Area 4H 3 Units	2.7 Units
Government and Politics - Comparative	3 Units towards Social/Behavioral Sciences GE requirement with a score of 3 or 4. Credit for PS 12 with a score of 5.	Area D8 3 Units	3 Units	Area 4H 3 Units	2.7 Units
History – United States	5 Units towards Social/Behavioral Sciences GE requirement with a score of 3. HIST 22 and 2 more elective credits with a score of 4 or 5.	Area C2 **or** D6 **and** US-1 3 Units	6 Units	Area 3B **or** 4F 3 Units	5.3 Units
History – European	5 Units towards Social/Behavioral Sciences GE requirement	Area C2 **or** D6 3 Units	6 Units	Area 3B **or** 4F 3 Units	5.3 Units
History – World	3 units towards Humanities GE requirement. Credit for HIST 5 and 2 more elective units with a score of 4 or 5.	Area C2 **or** D6 3 Units	6 Units	Area 3B **or** 4F 3 Units	5.3 Units
Human Geography	3 units towards Social/Behavioral Sciences GE requirement	Area D5 3 Units	3 Units	Area 6A & 3B 3 Units	2.7 Units
Italian – Language & Culture	3 units towards Humanities GE requirement	Area C2 3 Units	6 Units	Area 6A & 3B 3 Units	5.3 Units
Japanese – Language & Culture	3 units towards Humanities GE requirement	Area C2 3 Units	6 Units	Areas 6A & 3B 3 Units	5.3 Units
Latin – Vergil	3 units towards Humanities GE requirement	Area C2 3 Units	3 Units	Areas 6A & 3B 3 Units	2.7 Units
Latin – Literature	3 units towards Humanities GE requirement	Area C2 3 Units (Only applies if taken before F'09)	6 Units (Only applies if taken before F'09)	Areas 6A & 3B 3 Units	2.7 Units
Mathematics - Calculus AB Exam	Credit for MATH 2 and Matriculation placement in MATH 3A with a score of 3. Credit for MATH 3A and Matriculation placement in MATH 3B with a score of 4 or 5.	Area B4 3 Units	3 Units (Only one Calculus AP exam applied toward degree)	Area 2A 3 Units	2.7 Units

Advanced Placement Exam	Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units	CSU GE Certification Area/Semester Units	CSU Minimum Admission Semester Units	IGETC Certification Area/Semester Units	UC Admissions Semester Units
Mathematics – Calculus BC Exam	Credit for MATH 3A and Matriculation Placement in MATH 3B with a score of 3. Credit for MATH 3A and MATH 3B and Matriculation placement in MATH 3C with a score of 4 or 5.	Area B4 3 Units	6 Units (Only one Calculus AP exam applied toward degree)	Area 2A 3 Units	5.3 Semester Unit max credit both exams.
Music Theory	5 units towards Fine Arts GE requirement	Area C1 3 Units (Only applies if taken before 09)	6 Units (Only applies if taken before F'09)	N/A	5.3 Units
Physics - (B Exam)	Credit for PHYS 2A	Areas B1 **and** B3 4 Units Max towards GE for all three physics exams	6 Units Max towards GE for all three physics exams	Area 5A & Lab 4 Units	5.3 Units max for all three physics exams
Physics C – Mechanics	3 units towards Natural Science GE requirement including lab	Areas B1 & B3 4 Units	4 Units	Area 5A & Lab 3 Units	2.7 Units
Physics C – Magnetism	3 units towards Natural Science GE requirement including lab	Areas B1 & B3 4 Units	4 Units	Area 5A & lab 3 Units	2.7 Units
Psychology	3 units towards Social/ Behavioral science GE requirement with a score of 3 or 4. Credit for PSYC 1 with a score of 5	Area D9 3 Units	3 Units	Area 4I 3 Units	2.7 Units
Spanish – Language	3 units towards Humanities GE requirement	Area C2 3 Units	6 Units	Areas 6A & 3B 3 Units	5.3 Units
Spanish – Literature	3 units towards Humanities GE requirement	Area C2 3 Units	6 Units	Areas 6A & 3B 3 Units	5.3 Units
Statistics	Credit for MATH 10 with a score of 3 upon **proof** of MATH 253 or 255 or equivalent, (e.g., two years of high school algebra) completed with a "C" or better	Area B4 3 Units	3 Units	Area 2A 3 Units	2.7 Units

Note: Requests for faculty review for specific course credit for AP exams and scores not listed above are to be made through the Articulation Officer in the Counseling Office.

CSU: General Education Certification—AP Exam Credit

All California State University (CSU) campuses will accept the minimum units as stipulated above toward full or partial CSU-GE certification. The CSU campus to which the student is transferring determines the applicability of the examination to other campus-specific graduation requirements including the major.

UC: IGETC—AP Exam Credit

Acceptable Advanced Placement test scores may be applied for IGETC course credit only when the Saddleback College faculty recognize the AP exam and score as equivalent to an IGETC-approved course. Requests for faculty review of IGETC course credit for AP exams and scores not listed above are to be made through the Articulation Officer in the Counseling Office.

Other Colleges & Universities—AP Exam Credit

AP credit granted by Saddleback College for either elective or specific course credit does not necessarily transfer as such to other colleges or universities, although policies on course credit are generally consistent with those of University of California (UC) campuses. Students planning to use AP credit toward transfer requirements will need to consult with appropriate campus representatives of the transfer institution for specific information regarding its policies and procedures.

College-Level Examination Program (CLEP)

Saddleback College does not accept CLEP as a waiver for the English Placement examination or for credit for General Examinations.

Subject Examination: Each academic division of the college may recognize the Subject Examination if a single examination measures the competency associated with the successful completion of a specific Saddleback College course. Generally, however, specific course credit by examination will be attained through the Credit by Examination—Specific Course Credit Policy.

CLEP scores will not be used for general education certification for the California State University, nor certification of Intersegmental General Education Transfer (IGETC) requirements.

English Equivalency Examination

Students who have passed the California State University English Equivalency Examination are awarded three semester units of ENG 1A (Principles of Composition) and three semester units of ENG 25 (Introduction to Literature) upon completion of one semester in residence.

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 Degrees, Certificates, and Awards section of this catalog for details.

Military Service Credit

Six semester units of general elective credit toward an 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 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.

Servicemen's Opportunity College

The American Association of Community and Junior Colleges has designated Saddleback College as a Servicemen's Opportunity College. In order to meet the unique educational demands of active duty service personnel and their dependents, the college provides the following services:

- Contract for degree
- Special counseling services
- Special tutorial services
- Special service-oriented entrance, residency, transfer an credit requirements

Contact the Counseling Office, SSC 167, 949-582-4572.

Tech Prep Articulation: High School/ Regional Occupational Program

Saddleback College maintains faculty-approved formal course and Tech Prep program high school articulation agreements with Capistrano Unified School District, Laguna Beach Unified School District, Saddleback Valley Unified School District, Capistrano-Laguna Beach Regional Occupational Program, and Coastline Regional Occupational Program. Fifteen disciplines have been articulated: Accounting, Architecture, Automotive Technology, Business, Child Development, Communication Arts, Computer Information Management, Computer Maintenance Technology, Drafting, Fashion Design, Foods and Nutrition, Graphic Design, Horticulture, Interior Design and Theatre Arts.

These agreements permit students to earn a Saddleback College Tech Prep Articulation Certificate and receive college credit for selected high school or Regional Occupational Program (ROP) coursework completed with a grade of "B" or better. After enrollment at Saddleback College, students should make a counseling appointment for verification and approval of their high school or ROP Tech Prep Articulation Certificate and for assistance in completing the Tech Prep Credit Petition form. The Office of Admissions and Records will process and post Tech Prep course credit to their transcript once verified and approved by a Saddleback College counselor or the Tech Prep 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 10th 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 10th 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 10th 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 10th 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 Advanced 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 curriculum is offered in both credit and non-credit modes. These courses are all designed to meet the academic and critical-thinking challenges of each discipline. Disciplines include Accounting, Art, Communication Arts, Computers, English, Fashion, Foreign Language, Geology, Gerontology, History, Health, Kinesiology (formerly Physical Education), Music, Philosophy, Photography, Political Science, and Theatre.

For further information regarding the Emeritus Institute program call 949-582-4936 or 770-9669 or access our website at www.saddleback.edu/AP/emeritus.

Community Education

The College provides not-for-credit educational opportunities for the community through fee-based classes and programs for adults and children. Classes are self-supporting and do not receive funding through state or local taxes or the college's budget.

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 website at www.ce.saddleback.edu.

Study-Abroad Programs

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

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

Graduation Requirements

Responsibility for filing a Petition for Graduation in the Office of Admissions and Records rests with the student, and all transcripts for all prior college work attempted must be on file for the petition to be considered. The deadline to file a Petition for Graduation is March 1 for spring graduation, July 1 for summer graduation, and November 1 for fall graduation.

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."

1. Students may apply only one course below transferable freshman composition ENG 1A toward the Associate Degree.
2. A single course may be used to satisfy both a general education and a major requirement.

V. Major Requirement: (All courses must be completed with a grade of "C" or better. Title 5 section 55063)

1. Complete an Associate degree program as described in the Saddleback College catalog.

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 in the South Orange County Community College District 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."

1. Students may apply only one course below transferable freshman composition ENG 1A toward the Associate Degree.
2. A single course may be used to satisfy both a general education and a major requirement.

V. Major Requirement (satisfy one. All courses must be completed with a grade of "C" or better. Title 5 section 55063):

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.

Associate Degree General Education Requirement

PHILOSOPHY OF GENERAL EDUCATION

The philosophy underlying "general education" is that no discipline is an isolated endeavor; instead, each relies upon and in turn reflects a common body of knowledge, ideas, intellectual processes, cultural traditions, and modes of perception. General education is a framework in which to place knowledge stemming from many sources. The general education experience allows the associate degree graduate to analyze, understand, appreciate, and modify the global society in which we live. Combined with an in-depth study in a selected field of knowledge, general education will contribute to and support the pursuit of lifelong learning. The Saddleback College general education curriculum provides both core and breadth requirements. Core requirements prepare students with fundamental knowledge and skills needed in all other coursework. Effective reading, writing, speaking, and critical thinking skills are, therefore, curriculum threads in each of the Saddleback College general education courses. Breadth requirements for general education expose students to each of the broad disciplines (the natural and social sciences, the humanities, and the arts) within which the human search for knowledge is carried out.

Core Requirements

Core requirements provide foundational skills and knowledge that allow students to think critically, to communicate clearly and effectively in speaking and in writing, and to use mathematics.

1. LANGUAGE AND RATIONALITY

Courses which develop the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation of communication.

(One course in each category with a grade of "C" or better.)

A. Written Communication

ENG 1A

B. Oral Communication

SP 1

SP 5

BUS 102

2. MATHEMATICS COMPETENCY

Students should complete either option A or option B.

A. Completion with a grade of "C" or better of any mathematics course offered within the Mathematics Department, other than MATH 251, 251A *and* B, 351.

B. Evidence of one of the following standardized examination scores:

1. 3 or above on the College Board Advanced Placement Exam
2. 530 or above on the Mathematics section of the SAT
3. 23 or above on the ACT Mathematics Test
4. 520 or above on the College Board Math Achievement Test

3. READING COMPETENCY

Students should complete one of these options:

A. Completion with a grade of "C" or better of ENG 1B or 170 or 180.

B. Evidence of one of the following standardized examination scores:

1. 400 or above on the Critical Reading section of the SAT
2. 19 or above on the ACT Reading Test
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.

C. Completion of ENG 340 with a grade of "C" or better. Skills developed in ENG 340 meet Reading Competency requirements. Units earned do not apply to the associate degree.

4. INFORMATION COMPETENCY

Information competency is the ability to find, evaluate, use, and communicate information in all its various formats. It combines aspects of library literacy, research methods, and technological literacy. Information competency includes consideration of the ethical and legal implications of information and requires the application of both critical thinking and communication skills.

Courses in this category may also apply to Core, Breadth, or major requirements.

One of the following courses completed with a grade of "C" or better:

ANTH 2*, 3*, 4*, 6, 8
BUS 102
CIM 1, 10
CCS 1*, 2*, 10*
DANC 64
ENG 1B, 170
ENV 1, 18
FCS 115
FN 50
HIST 4, 5, 12*, 16, 17, 32
LIB 2, 100, 101
N 176
PSYC 1, 2, 7
SP 1, 2, 3

Note: Courses used to fulfill any competency requirement may also apply toward Core or Breadth requirements

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 12
ART 4, 20, 21*, 22*, 23*, 24*, 25, 26, 28, 29*
CA 29*, 30
DANC 64
FASH 144*
FA 27
HORT 115
ID 110, 122, 125
MUS 1, 20, 23*, 24, 25, 26, 27, 28, 29*
PHOT 25
SP 32/TA 32
TA 20, 22, 25, 26, 110*

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

One course from the following:

ARAB 1*, 2*, 21*
CHI 1*, 2*, 21*
ENG 3, 4, 5, 15A, 15B, 17A, 17B, 18, 19, 20, 21A*, 21B*, 23A*, 24*, 25, 27A, 27B, 27E, 44, 50*, 52, 142
FR 1, 2, 3, 4
GER 1, 2, 3, 4
HIST 4, 5
HUM 1, 3, 10A, 10B, 21/IDS 1, HUM 22/IDS 2, HUM 25/IDS 5
ITA 1, 2, 3, 4, 21
JA 1*,2*, 21*
KOR 21*
PRSN 1*, 2*, 3*, 4*
PHIL 1,10*, 15
SL 1, 2, 3, 4
SPAN 1* (or 1A* and 1B*), 2*, 3*, 4*, 20A, 20B, 21A*, 21B*, 21C
SP 30/TA 30

2. NATURAL SCIENCES

Those courses of study which deal with matter and energy as it applies to physical and/or life sciences and their interrelations and transformations.

One course from the following:

ANTH 1 and 1L (ANTH 1L must be taken concurrently with ANTH 1 or within one year after completing ANTH 1)
ASTR 20 and 25 combined
BIO 3A, 3B, 11, 15, BIO 19/ENV 19, BIO 20, 113
CHEM 1A, 3, 108, 120/ENV 120
ENV 18, 24
GEOG 1 and 1L (GEOG 1L must be taken concurrently with GEOG 1 or within one year after completing GEOG 1)
GEOL 1, 20, 23/ENV 23
HORT 20
MS 4, 20
PHYS 2A, 4A, 20
(Course used to fulfill this requirement must include a lab.)

3. SOCIAL AND BEHAVIORAL SCIENCES

The body of knowledge that relates to the human being as a member of society or component of society, such as state, family, or any systematized human institution.

Group A. Social/Behavioral Science

One course from the following:

ANTH 2 *, 3*, 4*, 5, 7*, 8, 9, 10, 11, 17, 20*/ SP 20*, ANTH 21*, 42
BUS 1
CD/PSYC 7+, CD 15/SOC 15, CD 117
CCS 1*, 2*, 10*
ECON 2, 4, 20
ENV 1
GEOG 2*, 3
HIST 12*, 19, 20*/SOC 20*, HIST 21*, 27*, 28*, 30*, 33*, 61*/PS 61*, HIST 62, 63, 70*, 71*, 72*, 74*, 75*/PS 75*, HIST 80*/PS 80*, HIST 81*
HS 100, 120, 131, 186
JRN 1/CA 1
PS 4, 11/ECON 11; PS 12*, 14*
PSYC 1, 16*, 21*
SOC 1, 2, 4*, 5*, 6*, SOC 7/CD 710, SOC 15/CD 15, CD 21*, 25
WS 10*, 40*

Group B.American Institutions

(Nursing students who possess a Bachelor's degree are not held to the American Institutions requirement, per SB 1393)

HIST 7 or 8 or 16 or 17 or 22 or PS 1

4. LIFE SKILLS/CRITICAL THINKING

Life skills is study to equip human beings for lifelong understanding and development of themselves as integrated physiological, 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 1, 140,150, 151, 160
BUS 116
CD/PSYC 7+, CD 112
FASH 141
FCS 115, 142
FN 50, 64
GERO 101
HLTH 1, 3
HS 170, 175
PSYC 5, 33
SPS 115, 205
WS 120

Group B. Critical Thinking

CD 120
ENG 1B, 170
PHIL 12
SP 2, 3

+CD/PSYC 7 meets either Social & Behavioral Group A or Life Skills Group A, not both.

5. PHYSICAL FITNESS ASSESSMENT

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

One course from the following:

KNES 107

KNEA 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 widen 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.

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

Completion and certification of either the CSU General Education or IGETC pattern may substitute for Saddleback College general education requirements.

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 ENG 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.

Certificate of Completion

The curriculum in the English as a Second Language Completion Certificate is designed to provide the students with the opportunity to achieve increased fluency in English while enrolled in non-credit coursework. Students who successfully complete the hours required for a certificate expand their employment and educational options.

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

Occupational Skills Award

Occupational Skills Awards acknowledge to the recipient and the potential employer achievement of a set of vocational skills in a specific field. These awards may contain from 6 to 17.9 units and do not appear on the student transcript. All courses for the Occupational Skills Award must be completed at Saddleback College.

It is the student's responsibility to make a formal application for the Occupational Skills Award to the Office of Admissions and Records.

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.

Degrees, Certificates, and Awards

	O.S.A.	A.A.	A.S.	C.A.	C.C.	Page
Accounting						
Accountant		•	•	•		48
Computerized Accounting Specialist		•	•	•		48
Tax Preparation		•	•	•		48
Administrative Assistant		•	•	•		49
American Sign Language Interpreting		•	•	•		49
Anthropology		•				50
Aquarium and Aquaculture Science			•	•		50
Aquaculture Technician	•					50
Aquarium Technician	•					51
Architectural Drafting		•	•	•		51
Art		•				51
Astronomy		•	•			52
Automotive Technology						
Automotive Chassis Specialist		•	•	•		52
Automotive Engine Performance Specialist		•	•	•		52
Automotive Engine Service Specialist		•	•	•		53
General Automotive Technician		•	•	•		53
Biology		•	•			54
Applied Biotechnology	•					54
Business Administration						
Business Administration		•				54
Business and Commerce		•				54
Business Management						
Business Leadership		•	•	•		55
Business Marketing		•	•	•		55
Entrepreneurship		•	•	•		55
International Business		•	•	•		56
Professional Retailing		•	•	•		56
Retail Management			•	•		57
Human Resources Management	•					57
Project Management	•					57
Chemistry		•	•			57
Child Development and Educational Studies						
Early Childhood Teacher		•	•	•		58
Early Interventionist		•	•	•		58
Infant Toddler Teacher		•	•	•		59
Master Teacher		•	•	•		59
School Age Care and Recreation		•	•	•		60
Associate Teacher	•					60
Cinema/Television/Radio						60
Cinema		•	•	•		60
Cinema Production	•					62
Critical Studies	•	•	•	•		61-62
Post Production	•	•	•	•		61-62
Radio		•	•	•		61
Radio Broadcasting	•					62
Television		•	•	•		61
Television Production	•					63
Screen Acting and Voice Performance	•	•	•	•		61-63

	O.S.A.	A.A.	A.S.	C.A.	C.C.	Page
Computer and Information Management						
Applications Developer		•	•	•		63
E-Commerce Specialist		•	•	•		64
Network Administrator		•	•	•		64
Software Specialist		•	•	•		65
Web Designer		•	•	•		65
Webmaster		•	•	•		66
Information Security: Security	•					66
Office and Computer Skills	•					66
Computer Maintenance Technology			•	•		66
Computer Science		•	•			67
Construction Inspection		•	•	•		67
Consumer Services		•	•	•		67
Cosmetology				•		68
Cosmetician	•					68
Manicuring	•					68
Cross Cultural Studies		•				68
Culinary Arts						
Catering		•	•	•		69
Culinary Arts		•	•	•		69
Food Service		•	•	•		70
Dance		•				70
Drafting Technology		•	•	•		70
Ecological Restoration				•		71
Economics		•		•		71
Education						
Educational Assistant	•					71
Online Educator	•					72
Electronic Technology						
Analog and Digital Circuit Electronic Technology		•	•	•		72
Digital Electronic Technology		•	•	•		72
General Electronic Technology		•	•	•		73
Emergency Medical Technician	•					73
Engineering			•			73
English as a Second Language						
ESL Beginning Level					•	73
ESL Intermediate Level Pre-College					•	73
ESL Advanced Level					•	74
English Literature		•				74
Environmental Studies		•				74
Sustainability Studies	•					75
Family and Consumer Sciences		•	•	•		75
Fashion Design						
Fashion Design		•	•	•		76
Advanced Fashion Design and Apparel Manufacturing		•	•	•		76
Basic Costume Construction and Sourcing	•					77
Fashion Merchandising						
Fashion Merchandising		•	•	•		77
Visual Fashion Merchandising		•	•	•		78
Fine and Applied Arts		•				78

O.S.A.: Occupational Skills Award - Vocational Program (6-17.9 Units)
A.A.: Associate in Arts Degree
A.S.: Associate in Science Degree
C.A.: Certificate of Achievement - Vocational Program or other area approved by the State System Office (18 units or more)
C.C.: Certificate of Completion (non credit ESL only)

	O.S.A.	A.A.	A.S.	C.A.	C.C.	Page
Foods		•	•	•		79
General Education (IGETC or CSU-GE)				•		79
General Studies		•				79
Geographic Information Systems				•		80
Geography		•				80
Geology		•	•			80
Gerontology		•	•	•		81
Graphics						
Computer Graphics		•	•	•		81
Graphic Communications		•	•	•		82
Graphic Design		•	•	•		82
Illustration/Animation		•		•		82
Health Sciences		•				82
History		•				83
Horticulture		•	•	•		83
General Horticulture	•					84
Plant Identification	•					84
Human Development		•				84
Human Services						
Alcohol and Drug Studies		•	•	•		84
Corrections and Criminal Justice		•	•	•		85
Eating Disorders		•	•	•		85
Family Services		•	•	•		85
Human Services Generalist		•	•	•		86
Mentor and Prevention			•	•		86
Mental Health			•	•		86
Victim Services/Domestic Violence		•	•	•		87
Humanities		•				87
Interior Design						
Interiors Merchandising				•		87
Interior Design Assistant				•		87
Interior Design Professional		•	•	•		88
International Language		•				88
Journalism		•	•	•		88
Kinesiology		•				88
Landscape Design		•	•	•		89
General Landscape Design	•					89
Liberal Studies		•				89
Marine Science Technology						
Marine Science Technician		•	•	•		90
Seamanship		•	•	•		90
Mathematics		•				91
Medical Assistant						
Administrative Medical Assistant		•	•	•		91
Clinical Medical Assistant		•	•	•		91
Comprehensive Medical Assistant		•	•	•		92
Medical Insurance Coding	•					92
Medical Lab Technician			•	•		92
Music		•				93
Natural Sciences		•				93
Nursing						
Registered Nurse			•	•		94
Licensed Vocational Nurse to Registered Nurse			•			94
Licensed Vocational Nurse to Registered Nurse (30–Unit Option)			•			95
Diploma School Registered Nursing			•			95
Nutrition		•	•	•		96
Oceanography		•	•			96
Paramedic			•	•		96
Philosophy		•				97
Phlebotomist/Laboratory Assistant	•					97
Photography		•				97
Physical Education (see Kinesiology)						98
Physical Science		•				98
Physics		•	•			98
Political Science		•				98
Psychology		•				99
Radio/Television/Film						
Rapid Digital Manufacturing			•	•		99
Real Estate						
Real Estate Appraisal		•	•	•		99
Real Estate Escrow		•	•	•		100
Real Estate Sales/Broker		•	•	•		100
Social Sciences		•				100
Sociology		•				101
Speech/Communication		•				101
Theatre Arts Performance and Acting		•				101
Theatre Arts Entertainment and Theatre Technology		•				102
Theatre Arts Entertainment and Theatre Technology			•	•		102
Travel and Tourism		•	•	•		103
Women's and Gender Studies		•				103

O.S.A.: Occupational Skills Award - Vocational Program (6-17.9 Units)
A.A.: Associate in Arts Degree
A.S.: Associate in Science Degree
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C.C.: Certificate of Completion (non credit ESL only)

SOFTBALL

13
45

Accounting

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
or		
ACCT 203*	Cost Accounting	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	
or		3
BUS 14	Legal Environment of Business	
	Total	**26-27**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 189, 214, 289; BUS 1, 102, 103, 104, 125; CIM 1, 112, 171*, 174, 174A, 216*, 216C*, 218*, 229A*; ECON 2, 4*.

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 accounting system, as well as the latest commercial software, and the ability to analyze financial statements.

Course ID	*Title*	*Units*
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
ACCT 216*	Individual Income Tax	4
CIM 216*+	Spreadsheets: Excel	3
CIM 223B*	Computerized Accounting: QuickBooks—Advanced	1.5
	Select from Restricted Electives	3
	Total	**19.5**

Restricted Electives:

ACCT 120	Introduction to Financial Planning	3
ACCT 202A*	Intermediate Accounting I	3
ACCT 217*	Partnership and Corporate Taxation	3
ACCT 275*	Auditing	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 110, 189, 202A*, 202B*, 203*, 214, 289; BUS 102, 103, 104, 125; CIM 1, 112, 171*, 174, 174A, 216B*, 216C*, 218*, 229A*; ECON 2, 4*.

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 216*	Individual Income Tax	4
ACCT 217*	Partnership and Corporate Taxation	3
BUS 12	Business Law	
or		*3*
BUS 14	Legal Environment of Business	
CIM 216*+	Spreadsheets: Excel	3
CIM 223A*	Computerized Accounting: QuickBooks—Beginning	
or		1.5
CIM 223B*	Computerized Accounting: QuickBooks—Advanced	
	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 120, 189, 202B*, 203, 214, 220, 289; BUS 1, 102, 103, 104, 125; CIM 1, 10, 112, 171*, 174, 174A, 216B*, 216C*, 218*, 229A*; ECON 2, 4*.

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.

Course ID	*Title*	*Units*
BUS 103	Business English	3
CIM 1	Introduction to Computer Information Systems	
or		*3*
CIM 10	Introduction to Information Systems	
or		
CIM 112	Microsoft Office	
CIM 121C*	Keyboarding for Computers—Advanced	1.5
CIM 174+	Computer Operating Systems: Windows	3
CIM 214*+	Word Processing: Word	3
or		
CIM 214A*/B*	Word Processing: Word—Beginning/Advanced	1.5, 1.5
CIM 216*+	Spreadsheets: Excel	3
CIM 227*	Internet and Web Essentials	1.5
CIM 230*	Business Presentations: PowerPoint	3
	Select from Restricted Electives	3
	Total	**24**

Restricted Electives:

BUS 102	Oral Business Techniques (meets AA Oral Communication requirement)	3
BUS 104*	Business Communication	3
BUS 125	Human Relations in Business	3
CIM 218*	Database: Access	3
CIM 221	Managing Projects with Microsoft Project	3
CIM 223A*/B*	Computerized Accounting: QuickBooks—Beginning/Advanced	1.5, 1.5
CIM 271A*/B*	Web Development: XHTML—Beginning/Advanced	1.5, 1.5
CIM 272A*	Web 2.0 Design: Cascading Style Sheets-Beginning	1.5
CIM 272B*	Web Design and Web Development Overview-Intermediate	1.5
CIM 278A/B*	Web Development: Dreamweaver—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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 1, 12, 125, CIM 189, 289*.

American Sign Language Interpreting Certificate Program

The American Sign Language (ASL) Interpreting program is designed to prepare the student to serve as an interpreting intern in a variety of settings. Proficiency in ASL is valuable to professionals in special education, health sciences, audiology, and speech therapy.

Course ID	*Title*	*Units*
SL 1*	American Sign Language I	4
SL 2*	American Sign Language II	4
SL 3*	American Sign Language III	4
SL 4*	American Sign Language IV	4
SL 101	Deaf Culture and Its History	3
SL 103*	Sign Language Interpreting I	3
SL 104*	Sign Language Interpreting I Lab	1
SL 105*	Sign Language Interpreting II	3
SL 106*	Sign Language Interpreting II Lab	1
SL 107*	Interpreting Sign to Voice	3
	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

Completion of the following courses SL 1*, 2* 3*, 4*, 101 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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: SOC 1.

Anthropology Associate Degree Program

The curriculum in the Anthropology Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
ANTH 1	Biological Anthropology	3
ANTH 2	Cultural Anthropology	3
ANTH 3*	Culture and Language	3
ANTH 9	Introduction to Archaeology	3
	Select from Restricted Electives	6-9
	Total	**18-21**

Restricted Electives:

ANTH 4	Native American Indian Culture	3
ANTH 5	Anthropology of Latin America: Culture, Identity, and Power	3
ANTH 6*	Global Issues in Anthropological Perspective	3
ANTH 7	Indians of Southern California	3
ANTH 8	World Prehistory	3
ANTH 10	Celtic Cultures	3
ANTH 11	Mysteries of the Ancient Maya	3
ANTH 13	Magic, Witchcraft, and Religion	3
ANTH 14	Introduction to Visual Culture	3
ANTH 15	Primate Behavior	3
ANTH 17	The Biological Evolution of Human Nature	3
ANTH 21	Women and Culture: Cross-Cultural Perspectives	3
ANTH 42	Culture and Food	3

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BIO 11*, 12*, GEOL 2*; HIST 20/SOC 20; MATH 10*; PSYC 16*; SOC 1.

Aquarium and Aquaculture Science Certificate Program

The Aquarium and Aquaculture Science certificate program provides students with career preparation for entry-level work in public aquarium, interpretive/education centers, pet industry, private business, or aquaculture related venues. For those already in the field, a skills upgrade in the latest techniques and information relating to water chemistry and toxicology, filtration, life support and habitat design, culture protocols, health, nutrition and disease, and equipment will be covered using hands-on application and innovative scientific approach. Current industry standards, state and federal regulations, and licensing are addressed. Through guided practical and technical experience, field trips, and internships, students will acquire good husbandry skills required to properly care for aquatic organisms and the dynamics involved in aquarium science.

Course ID	*Title*	*Units*
MST 10	Introduction to Aquaculture	3
MST 100	Aquarium Systems	3
MST 101*	Aquarium Management	1.5
MST 203	Ecology of Captive Aquatic Fish and Invertebrates	3
MST 204	Aquatic Animal Health and Disease Management	3
MST 205	Water Quality and Toxicity for Aquatic Systems	3
MST 206*	Aquatic System Design and Life Support	3
MST 207*	Internship: Aquarium and Aquaculture	1.5
and		
CWE 180*	Cooperative Work Experience: Aquarium and Aquaculture	2
	Total	**23**

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

It is strongly recommended that students seeking cooperative work experience internships at public aquariums, obtain an Open Water SCUBA Certification from a reputable and nationally recognized organization (PADI, NAUI, etc.), and complete a basic first aid, CPR, and Dan oxygen administration course(s).

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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BIO 3A* or BIO 19*/ENV 19*; CHEM 108; CIM 1; MATH 351.

Aquaculture Technician Occupational Skills Award

The Aquaculture Technician Occupational Skills Award is designed to increase the ability to master the necessary technical skills and knowledge relating to the aquaculture of organisms. Completion of this program will enhance the opportunity for entry level employment, as well as, provide advancement in a career in aquaculture and fish hatcheries.

Course ID	*Title*	*Units*
MST 10	Introduction to Aquaculture	3
MST 101*	Aquarium Management	1.5
	Select from below	6
	Total	**10.5**
MST 203	Ecology of Captive Fish and Invertebrates	3
MST 204	Aquatic Animal Health and Disease Management	3
MST 205	Water Quality and Toxicity of Captive Aquatic Systems	3
MST 206*	Aquatic System Design and Life Support	3

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

Aquarium Technician Occupational Skills Award

The Aquarium Technician Occupational Skills Award is designed to increase the ability to master the necessary technical skills and knowledge relating to the care of captive aquatic organisms in aquariums. Completion of this program will enhance the opportunity for entry-level employment as well as, provide advancement in a career in public aquarium, ocean-themed interpretive/education centers, aquatic pet industry and aquarium related venues.

Course ID	*Title*	*Units*
MST 100	Aquarium Systems	3
MST 101*	Aquarium Management	1.5
	Select from below	6
	Total	**10.5**
MST 203	Ecology of Captive Fish and Invertebrates	3
MST 204	Aquatic Animal Health and Disease Management	3
MST 205	Water Quality and Toxicity of Captive Aquatic Systems	3
MST 206*	Aquatic System Design and Life Support	3

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

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.

Course ID	*Title*	*Units*
First Year		
ARCH 10	Introduction to Architecture	2
ARCH 12	History of Architecture	3
ARCH 50*/DR 50*	Introduction to Computer-Aided Drafting	3
ARCH 51*/DR 51*	Computer-Aided Drafting	3
ARCH 124A	Architectural Drawing I	4
ARCH 124B*	Architectural Drawing II	4
Second Year		
ARCH 34*	Basic Architectural Design I	3
or		
ARCH 132*	Residential Planning Principles and Design	3
ARCH 42*	Descriptive Drawing and Perspective	3
ARCH 122	Architectural Practice	2
ARCH 124C*	Architectural Drawing III	4
ARCH 126	Materials and Methods of Construction	3
ARCH 152*/DR 152*	Advanced Computer-Aided Drafting	3
	Select from Restricted Electives	3-4
	Total	**40-41**

Restricted Electives:

ARCH 44*	Architectural Presentation and Rendering	2
ARCH 161	Blueprint Plans and Specification Reading	4
ARCH 163	International Building Code Inspection	4
ARCH 164*	Combination Residential Dwelling Inspection	3
ARCH 165	Electrical Code Inspection	3
ARCH 200	Design in Arizona, Riverside, and Palm Springs	1.5
ARCH 211	Concrete Inspection	3
ARCH 212	Drains, Waste, Vents, Water and Gas	3
ARCH 213	Mechanical Code: Heating, AC, Refrigeration, and Ductwork	3
ARCH 214	Code Enforcement and Disabled Access	3
ARCH 289	Special Topics	1.5-3
DR 289	Special Topics	1.5-3
MFG 200*	Introduction to Rapid-Prototyping Technology	3
MFG 201*	Advanced CAD Model Making and Tooling	2
MFG 204*	3D Computer-Aided Design-Solidworks	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ARCH 44*, 136*; ART 40, 41*, 80.

Art Associate Degree Program

The curriculum in the Art Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the associate degree would demonstrate achievement and may support attempts to gain entry-level employment in graphic design or promotion.

Course ID	*Title*	*Units*
First Year		
ART 40	Two-Dimensional Design	3
ART 41*	Three-Dimensional Design	3
ART 50*	Painting I	3
ART 80	Drawing I	3
	Select from Restricted Electives	3
Second Year		
ART 25	Survey of Art History: Ancient Worlds to Gothic	3
ART 26	Survey of Art History: Renaissance to Modern	3
ART 85*	Drawing from the Live Model I	3
	Select from Restricted Electives	9
	Total	**33**

Restricted Electives:

ART 9*, 10*, 11*, 12*, 13*, 20, 21, 22, 23, 24, 28, 29, 51*, 52*, 54*, 57, 58*, 59*, 60*, 61*, 62*, 63, 70, 71*, 72*, 78, 79*, 81*, 82*, 86*, 87*, 133*, 134*, 140, 141, 142, 144, 145, 175*, 216*, 217*, 240, 250*.

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Astronomy Associate Degree Program

The curriculum in the Astronomy Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
First Year		
ASTR 20	General Astronomy	3
and		
ASTR 25*	Observational Astronomy	3
CS 1A	Introduction to Computer Science	3
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
Second Year		
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
	Total	**34**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ASTR 45*.

Automotive Technology

The Automotive Technology programs are designed to prepare students for employment as automotive technicians. Students may also complete their Associate in Science or Associate in Arts Degree requirements and prepare to transfer to a four-year college. Training is given in both theory and practical skills in the operation, maintenance, and repair of all types of automotive systems. The following four certificate options are available: Automotive Chassis Specialist, Automotive Engine Service Specialist, Automotive Engine Performance Specialist, and General Automotive Technician.

Automotive Chassis Specialist Certificate Program

This program allows a student to prepare for a career with drivetrain emphasis. This program is ideal for the small-business owner, independent shop, or the dealership career-oriented technician.

Course ID	*Title*	*Units*
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical Systems	3
AUTO 105*	Automotive Power Train	3
AUTO 106A*	Automotive Suspension and Alignment	3
AUTO 106B*	Automotive Brakes	3
AUTO 107*	Automatic Transmissions	3
AUTO 108*	Automotive Air Conditioning	3
	Select from Restricted Electives	.5-5
	Total	**21.5-26**

Restricted Electives:

AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 189/289	Special Topics	1-3
AUTO 201*	Advanced Automotive Electrical	3
AUTO 205*	Advanced Smog Update Training	.5
AUTO 207*	Automotive Engineering Fundamentals	3
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
CWE 180*†	Cooperative Work Experience: Automotive	1

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

†CWE 180* should be taken after completing at least 9 units of the Automotive Chassis Specialist Certificate 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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Automotive Engine Performance Specialist Certificate Program

This program allows a student to prepare for a career with an emphasis in engine performance. The student will be qualified to take the State of California Bureau of Automotive Repair Smog License exam upon completion of this program.

Course ID	*Title*	*Units*
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical System	3
AUTO 102*	Automotive Engine Performance/Electronics and Ignition Systems	3
AUTO 103*	Automotive Engine Performance/ Fuel and Emissions Systems	3
AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200*	Enhanced Area Clean Air Car Course	1
AUTO 201*	Advanced Automotive Electrical	3
AUTO 205*	Advanced Smog Update Training	.5
AUTO 207*	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	3
	Total	**27.5**

Restricted Electives:

AUTO 108*	Automotive Air Conditioning	3
AUTO 189/289	Special Topics	1-3

AUTO 202*	Advanced Engine Performance Diagnosis	3
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
CWE 180*†	Cooperative Work Experience: Automotive	1

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

†CWE 180* should be taken after completing at least 9 units of the Automotive Tune-up Specialist Certificate 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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Automotive Engine Service Specialist Certificate Program

This program provides the student with a comprehensive background in the engine machining process. Emphasis is on detailed instruction in all phases of engine operation, measurement, machining, blueprinting and assembly procedures. Students will rebuild a complete engine in a two-semester course sequence.

Course ID	*Title*	*Units*
AUTO 100	Automotive Fundamentals	3
AUTO 102*	Automotive Engine Performance/Electronics and Ignition Systems	3
AUTO 103*	Automotive Engine Performance/Fuel and Emissions Systems	3
AUTO 104A*	Automotive Engines	5
AUTO 104B*	Automotive Engines	5
AUTO 207*	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	.5-5
	Total	**22.5-27**

Restricted Electives:

AUTO 108*	Automotive Air Conditioning	3
AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 189/289	Special Topics	1-3
AUTO 204*	High Performance Engine Blueprinting	3
AUTO 205*	Advanced Smog Update Training	.5
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
CWE 180*†	Cooperative Work Experience: Automotive	1

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

†CWE 180* should be taken after completing at least 9 units of the Automotive Engine Service Specialist Certificate 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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

General Automotive Technician Certificate Program

This program provides students with knowledge of all operating systems in the modern automobile. Ideal for the small business owner, independent shop, or the dealership career-oriented technician.

Course ID	*Title*	*Units*
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical System	3
AUTO 102*	Automotive Engine Performance/Electronics and Ignition Systems	3
AUTO 103*	Automotive Engine Performance/ Fuel and Emissions Systems	3
AUTO 104A*	Automotive Engines	5
AUTO 104B*	Automotive Engines	5
AUTO 105*	Automotive Power Train	3
AUTO 106A*	Automotive Suspension and Alignment	3
AUTO 106B*	Automotive Brakes	3
AUTO 207*	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	.5-5
	Total	**34.5-39**

Restricted Electives:

AUTO 107*	Automotive Transmissions	3
AUTO 108*	Automotive Air Conditioning	3
AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200*	Enhanced Area Clean Air Car Course	2
AUTO 201*	Advanced Automotive Electrical	3
AUTO 202*	Advanced Engine Performance Diagnosis	3
AUTO 205*	Advanced Smog Update Training	.5
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
CWE 180*†	Cooperative Work Experience: Automotive	1

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

†CWE 180* should be taken after completing at least 9 units of the General Automotive Mechanic Certificate 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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Biology Associate Degree Program—Biological Science

The curriculum in the Biology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
First Year		
BIO 3A*	General Biology I	5
BIO 3B*	General Biology II	5
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
Second Year		
BIO 3C*	Biochemistry and Molecular Biology	5
CHEM 12A*	Organic Chemistry	5
CHEM 12B*	Organic Chemistry	5
	Total	**35**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BIO 11*, 12* or 15*; MATH 3A* or 11*; PHYS 2A*, 2B* or 4A*, 4B*.

Applied Biotechnology Occupational Skills Award

The Occupational Skills Award in Biotechnology is awarded to students who successfully complete Applied Biotechnology I and Applied Biotechnology II. These courses provide students with the theory and skills necessary for entry into the biotechnology field. This program provides students with an understanding of common techniques used in entry-level biotechnology research positions.

Course ID	*Title*	*Units*
BIO 221*	Applied Biotechnology I	4
BIO 222*	Applied Biotechnology II	4
	Total	**8**

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

Business Administration Associate Degree Program

Business Administration

The curriculum in the Business Administration Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
BUS 1	Introduction to Business	3
BUS 12	Business Law	
or		*3*
BUS 14	Legal Environment of Business	
BUS 104*	Business Communication	3
CIM 1	Introduction to Computer Information Systems	
or		*3*
CIM 10	Introduction to Information Systems	
ECON 2	Principles (Macro)	3
ECON 4*	Principles (Micro)	3
MATH 3A*	Analytic Geometry and Calculus	5
or		
MATH 11*	A Brief Course in Calculus	5
	Total	**31**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 116, 120, 125, 135, 150; MATH 9*, 10*; PHIL 12* or 15*.

Business and Commerce

The curriculum in the Business and Commerce Associate Degree program is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers in business, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
ACCT 1A	Financial Accounting	4
BUS 1	Introduction to Business	
or		*3*
BUS 150	Survey of International Business	
BUS 102	Oral Business Techniques (meets AA Oral Communication requirement)	3
BUS 103	Business English	3

BUS 104*	Business Communication	3
BUS 120	Essentials of Business Management	3
BUS 125	Human Relations In Business	3
CIM 1	Introduction to Computer Information Systems	
or		*3*
CIM 10	Introduction to Information Systems	
or		
CIM 120	Computer Literacy	1.5
	Total	**23.5-25**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Business Management

The Business Management programs are designed for the development of a high quality manager for whom there is an ever-growing need. The Business Management curriculum is structured to furnish a broad preparation for careers in business at the mid-management levels.

Business Leadership Certificate Program

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

Course ID	*Title*	*Units*
BUS 1	Introduction to Business	
or		3
BUS 160	Entrepreneurship	
BUS 102	Oral Business Techniques	3
BUS 104*	Business Communication	3
BUS 120	Essentials of Business Management	3
BUS 125	Human Relations in Business	
or		*3*
BUS 221	Human Resources Management	
BUS 295	Employment Law	3
	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 12 or 14, 116, 195, 294

Business Marketing Certificate Program

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

Course ID	*Title*	*Units*
BUS 1	Introduction to Business	
or		3
BUS 160	Entrepreneurship	
BUS 102	Oral Business Techniques	3
BUS 104*	Business Communication	3
BUS 135	Elements of Marketing	3
BUS 136	Principles or Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 138/CA 138	Advertising	3
BUS 293	Copyright and Trademark	1.5
	Total	**22.5**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 12 or 14, 116, 195.

Entrepreneurship Certificate Program

The Entrepreneurship Certificate is designed specifically for members of the business community, who are either starting a new business or in the planning stages. The program will provide valuable information, not only in the critical area of legal issues, but step-by-step workshop-type classes to help with business ownership issues such as determining the appropriate legal form in which the business should operate and creating the initial business plan.

Because some of the leading causes of failure in new businesses are legal problems, lack of adequate capitalization and managing your initial capital investment, this program was created to provide specific information in these areas to help you make good decisions to ensure your success.

Many of the courses in the program are designed with the busy professional in mind. Some classes are accelerated so each lecture meets for a longer period of time and the courses are broken into smaller units that do not require a full semester 18-week commitment. In addition, some of the classes are hybrids wherein part of the course is online so the students can do part of the course work at their convenience at home or at work.

There are two courses in the Intellectual Property Series. It is highly recommended that both courses are taken so the business professional can fully understand the many Intellectual Property issues impacting business today.

Course ID	Title	Units
BUS 12	Business Law	
or		*3*
BUS 14	Legal Environment of Business	
BUS 104*	Business Communication	3
BUS 120	Essentials of Business Management	
BUS 160	Entrepreneurship	3
BUS 292	Patents and Trade Secrets	1.5
BUS 293	Copyright and Trademark	1.5
BUS 294	Entrepreneurial Accounting	3
BUS 295	Employment Law	3
BUS 296	Financing the Entrepreneurial Business	1.5
	Total	**22.5**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 102, 125, 221.

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.

Course ID	Title	Units
BUS 1	Introduction to Business	
or		*3*
BUS 160	Entrepreneurship	
BUS 12	Business Law	
or		*3*
BUS 14	Legal Environment of Business	
BUS 104*	Business Communications	3
BUS 135	Elements of Marketing	3
BUS 150	Survey of International Business	3
BUS 260	Strategies for Exporting and Importing	3
	Total	**18**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 102, 116, 120, 125, 136, 137, 138, 195*, 292, 293.

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.

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 125	Human Relations in Business	3
BUS 137	Professional Selling Fundamentals	3
BUS 195*†	Internship	1
and		
CWE 180*†	Cooperative Work Experience: Business	1-4
CIM 112	Microsoft Office	3
	Select one Specialty Industry Area	12
	Total	**26-29**

Specialty Industry Areas

Area I—Management

BUS 12	Business Law	3
BUS 14	Legal Environment of Business	3\
BUS 103	Business English	
or		*3*
BUS 135	Elements of Marketing	
BUS 104*	Business Communication	3
or		
BUS 120	Essentials of Business Management	3

Area II—Promotion

BUS 135	Elements of Marketing	3
BUS 138/CA 138	Advertising	3
GC 101	Introduction to Graphic Communication	3
FASH 150	Fashion Apparel and Professional Techniques	3

Area III—Merchandising

BUS 31/FASH 31	Textiles	3
BUS 135	Elements of Marketing	3
BUS 136	Principles of Retailing	
or		*3*
BUS 143/FASH 143	Fashion Buying and Merchandising	
BUS 147/FASH 147	Special Events Coordination and Promotion	3
BUS 148/FASH 148	Visual Merchandising	3

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 12, 102, 103, 104*, 116, 135, 138, 147, 150, 260, 290, 295; CIM 1, 10, 120, 121A, 171*, 174, 174A, 174; FASH 140, 144, 150.

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.

Course ID	*Title*	*Units*
ACCT 1A	Financial Accounting	4
or		
ACCT 215	General Accounting	3
ACCT 214	Business Analysis and Calculations	3
BUS 102	Oral Business Techniques	3
BUS 104*	Business Communication	3
BUS 120	Essentials of Business Management	3
BUS 125	Human Relations in Business	3
BUS 135	Elements of Marketing	3
BUS 136	Principles of Retailing	3
BUS 221	Human Resources Management	3
CIM 1	Introduction to Computer Information Systems	
or		*3*
CIM 10	Introduction to Information Systems	
	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.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 12 or 14, 116, 137, 138, 150, 160, 195*.

Human Resources Management Occupational Skills Award

The Human Resources Management Occupational Skills Award is designed to increase the ability to succeed in an emerging and evolving work environment. The curriculum assists student's understanding of the scope of human resources management and the requirements for success. Completion of the program in Human Resources Management enhances the opportunity for entry employment as well as advancement in a career.

Course ID	*Title*	*Units*
BUS 120	Essentials of Business Management	3
BUS 125	Human Relations in Business	3
BUS 221	Human Resources Management	3
BUS 295	Employment Law	3
	Total	**12**

Project Management Occupational Skills Award

The Project Management Occupational Skills Award provides the opportunity to master the necessary management concepts to successfully complete projects with an effective level of leadership, planning, and teamwork. The courses assist in the development of the needed skills to ultimately gain personal confidence and trust of others to lead a project management team. Completion of this program increases the value of the management skills needed for entry-level employment as well as advancement in a career.

Course ID	*Title*	*Units*
BUS 120	Essentials of Business Management	3
BUS 125	Human Relations in Business	3
CIM 221	Managing Projects with Microsoft Project	3
	Total	**9**

Chemistry Associate Degree Program

The curriculum in the Chemistry Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the Associate degree would demonstrate achievement and may support 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.

Course ID	*Title*	*Units*
First Year		
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
Second Year		
CHEM 12A*	Organic Chemistry	5
CHEM 12B*	Organic Chemistry	5
	Total	**20**

*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

Complete the units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BIO 3C*; MATH 3A*, 3B*; PHYS 2A*, 2B* or 4A*, 4B*.

Child Development

The Child Development program is a theory-based, hands-on program that offers opportunities for students to deepen their understanding of children and families and the unique teaching and learning process that applies to the early years. The program is designed to strengthen students' skills in developmentally appropriate care and play-based teaching practices for young children. Coursework focuses on the physical, cognitive, and social and emotional growth and development of children under the age of 12 and the unique care and education needs of children ages 0-5.

The Child Development program offers options for professional development, professional certification and transfer to four-year institutions. All options are designed to educate and prepare students to work with culturally diverse groups of children in schools, centers and homes. The major offers preparation for careers in the field of early child education such as state funded children's programs, private and public preschools, family child care and public school programs, and provides a valuable foundation for students considering elementary school teaching. Classes in child development can also lead to careers working directly or indirectly with children in related fields, such as psychology, social services, educational material development, children's center design services, children's advocacy, special education, and pediatric health.

Certificate and degree coursework is with the State issued Child Development permit matrix. Additional work experience may be required to satisfy permit requirements.

The recommended preparations are carefully chosen to guide students to the most successful learning experience. The electives allow students to go into more depth in the areas of their choosing.

Early Childhood Teacher Certificate

This certificate meets the coursework requirements of the Teacher level Child Development Permit and prepares students to be competent and effective teachers and caregivers for young children ages 3-5. Additional work experience with young children (175 days of 3 hours per day within 4 years) is required to qualify for state permit. Saddleback Certificate can be earned with coursework only.

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

Core Courses

Course ID	*Title*	*Units*
CD 7*/PSYC 7*	Developmental Psychology: Child Growth and Development	3
CD 15*/SOC 15*	Child, Family, and Community	3
CD 101*	Principles and Practices of Teaching Young Children	3
CD 110*	Introduction to Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching Children in a Diverse Society	3
CD 120*	Observations and Assessment	3

Supervised Field Experience Course

CD 121*	Practicum: The student teaching experience	5

Lab placement must be in a setting that serves children ages 3-5

General Education (16 units):

A course in each of the following 4 areas must be included.
See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16
Total	**45**

*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. Students intending to transfer must complete IGETC or CSU pattern general education courses.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Pending State Approval

Early Interventionist Certificate Pregram

This certificate prepares students for career placements in public and/or private early intervention and educational settings that service typically and atypically developing young children. Specific jobs and responsibilities may include serving as a special education assistant for children birth to eight years of age, a one-one aide to a child, regular classroom aide with expertise in special needs, or as an assistant to the early intervention team for infants' birth to three years of age. This certificate meets the coursework requirements of the Teacher level Child Development Permit.

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

Core Courses

Course ID	*Title*	*Units*
CD 7*/PSYC 7*	Developmental Psychology: Childhood and Adolescence	3
CD 15*/SOC 15*	Child, Family, and Community	3
CD 101*	Principles and Practices for Teaching Young Children	3
CD 110*	Intro to Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching Children in a Diverse Society	3
CD 120*	Observations and Assessment	3

Early Interventionist Courses

CD 123*	Infant and Toddler Development	3
CD 135*	The Young Child with Special Needs	3
CD 140*	Early Intervention and Inclusion	3

Supervised Field Experience Courses

CD 121*	Practicum: The Student Teaching Experience	5

Lab placement must be in a setting that includes atypically developing children

Prerequisite course:

CD 110*	Introduction to Curriculum

General Education (16 units):
A course in each of the following 4 areas must be included.
See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16
Total Units	**54**

*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. Students intending to transfer must complete IGTCE or CSU pattern general education courses.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Infant Toddler Teacher Certificate Program

This certificate meets the coursework requirements of the Teacher level Child Development Permit and prepares students to be competent and effective teachers and caregivers in infant and toddler classrooms.

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

Core Courses

Course ID	*Title*	*Units*
CD 7*/PSYC 7*	Developmental Psychology: Child Growth and Development	3
CD 15*/SOC 15*	Child, Family, and Community	3
CD 101*	Principles and Practices of Teaching Young Children	3
CD 110*	Introduction to Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching Children in a Diverse Society	3
CD 120*	Observations and Assessment	3

Infant and Toddler Courses

CD123*	Infant and Toddler Development	3
CD 133*	Infant and Toddler Group Care and Programming	3

Supervised Field Experience Courses

CD 121*	Practicum: The Student Teaching Experience	5

Lab placement must be in a setting that serves children ages 0-2

General Education:
A course in each of the following 4 areas must be included.
See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts	
Science or Math	
Social Sciences	
Humanities/Fine Arts	16
Total	**51**

*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. Students intending to transfer must complete IGETC or CSU pattern general education courses.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Master Teacher Certificate Program

This certificate meets the coursework requirements for the Master Teacher level Children Development Permit: and prepares students to be competent and effective teachers and caregivers for young children ages 0-5 and supervisors of adults in early childhood settings.

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

Core Courses

Course ID	*Title*	*Units*
CD 7*/PSYC 7*	Developmental Psychology: Childhood and Adolescence	3
CD 15*/SOC 15*	Child, Family, and Community	3
CD 101*	Principles and Practices for Teaching Young Children	3
CD 110*	Intro to Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching Children in a Diverse Society	3
CD 120*	Observations and Assessment	3

Supervised Field Experience Courses

CD 121*	Practicum: The Student Teaching Experience	5

Lab placement must be in a setting that serves children ages 3-5
AND

CD 121*	Practicum: The Student Teaching Experience	5

Lab placement must be in a setting that serves children ages 0-2 and once placed with children ages 3-5

Adult Supervision Course (2 units)

CD 127*	Adult Supervision and Mentor Practices	2

Specialization Units: Choose one of the clusters below 6

Diversity

CD 116*	Teaching in Multilingual Classrooms	3
CD 117*	Teaching Children in a Diverse Society	3

Curriculum (6 units from the following choices)

CD 270*	Preschool Learning Foundations: Social and Emotional Domain	1
CD 271*	Preschool Learning Foundations: Language and Literacy Domain	1
CD 272*	Preschool Learning Foundations: English Language Development	1
CD 273*	Preschool Learning Foundations: Mathematics	1
CD 250*	Gardening with Young Children	1
CD 251*	Cooking with Young Children	1
CD 252*	The Influence of Mass Media on Children	1

Special Needs

CD 119*	Perceptual Motor Development	3
CD 135*	The Young Child with Special Needs	3

Other combinations of course work demonstrating a specialized skill that could be applied in early childhood settings can be selected. Department Chair approval needed.

General Education (16 units): **16**

A course in each of the following 4 areas must be included.
See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts
Science or Math
Social Sciences
Humanities/Fine Arts

Total **58**

*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. Students intending to transfer must complete IGETC or CSU pattern general education courses.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

School Age Care and Recreation Certificate Program

This certificate provide a system of professional development for individuals working as before and after school recreation leaders and care givers in a variety of settings that serve school age children. It meets the coursework requirement for the School Age Child Development Permit at the Teacher level.

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

Core Courses

Course ID	*Title*	*Units*
CD 7*/PSYC 7*	Developmental Psychology: Child Growth and Development	3
CD 15*/SOC15	Child, Family, and Community	3
CD 101*	Principles and Practices of Teaching Young Children	3
CD 110*	Introduction to Curriculum	3
CD 111*	Child Guidance and Communication	3
CD 112*	Health, Safety, and Nutrition	3
CD 117*	Teaching Children in a Diverse Society	3
CD 120*	Observations and Assessment	3

School Age Course

CD 121*	Practicum: The Student Teaching Experience Lab placement must be in a before/after school care setting with children ages 6-12	5
CD 125*	School Age Children and Youth	3

General Education (16 units):

A course in each of the following 4 areas must be included.
See Associate Degree, CSU or IGETC General Education lists found in class schedule or student handbook for acceptable courses.

English/Language Arts
Science or Math
Social Sciences
Humanities/Fine Arts **16**

Total **48**

*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. Students intending to transfer must complete IGETC or CSU pattern general education courses.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Associate Teacher Occupational Skills Award

This skills award meets the coursework requirements for the Associate Teacher level of the Child Development Permit. Additional work experience with young children.

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

Course ID	*Title*	*Units*
CD 7*/PSYC 7*	Developmental Psychology: Child Growth and Development	3
CD 15*/SOC 15*	Child, Family, and Community	3
CD 101*	Principles and Practices of Teaching Young Children	3
CD 110*	Introduction to Curriculum	3
	Total	**12**

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

Cinema/Television/Radio Certificate Program

The certificate program in Cinema/Television/Radio prepares the student in all areas relating to the understanding and use of cinematic and broadcast 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. Coursework includes participation in internships at various stations and facilities.

Course ID	*Title*	*Units*
CA 1/JRN 1	Mass Media and Society	3
or		
CA 100	Introduction to Radio, TV, Film	3
CA 40*	Television and Film Scriptwriting I	3
CA 101	Video Production Basics	3
	Select from one Specialty Area	15
	Total	**24**

Specialty Area 1—Cinema

Required Courses:

CA 31*	Film Production I	3
CA 32*	Film Production II	3

Electives: (9 units)

CA 42*	TV/Film Directing	3
CA 111*	Audio Sound Design for Television and Film	3
CA 130*	Documentary Production	3
CA 131	Non-Linear Editing I	3
CA 142*	Television and Film Scriptwriting II	3
CA 206	Production Management	1
CA 208	Cinematography	2
CA 209	Script Supervising	3

CA 211	Film Production III	3
CA 212	Performance for Television and Film	3
CA 232*	Non-Linear Editing II	3
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Cinema	1

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

†Must be taken concurrently

Specialty Area 2—Television

Required courses:

CA 124*	Television Production I	3
CA 125*	Television Production II	3

Electives: (9 units)

CA 42*	Television and Film Directing	3
CA 111*	Audio Sound Design for Television and Film	3
CA 128*	Television and Radio News	3
CA 130*	Documentary Production	3
CA 131	Non-Linear Editing I	3
CA 142*	Television and Film Scriptwriting II	3
CA 206	Production Management	1
CA 208	Cinematography	2
CA 209	Script Supervising	3
CA 232*	Non-Linear Editing II	3
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Television	1

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

†Must be taken concurrently

Specialty Area 3—Radio

Required Courses:

CA 110	Audio Production	3
CA 113*	Radio Broadcasting	3

Electives: (9 units)

CA 111*	Audio Sound Design for Television and Film	3
CA 114*	Radio Station Activities	2
CA 115*	Advanced Radio Broadcasting	2
CA 118/MUS 118	Digital Multi-Track Music Recording	4
CA 128*	Television and Radio News	3
CA 141	Radio and Television Announcing and Voice-Over	3
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Radio	1

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

†Must be taken concurrently

Specialty Area 4—Post Production

Required Courses:

CA 131	Non-Linear Editing I	3
CA 232*	Non-Linear Editing II	3

Electives: (9 units)

CA 42*	TV/Film Directing	3
CA 111*	Audio Sound Design for Television and Film	3
CA 118/MUS 118	Digital Multi-Track Music Recording	4
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Post Production	1
CA 235*	Digital Special Effects	3

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

†Must be taken concurrently

Pending State Approval

Specialty Area 5—Critical Studies

Required Courses:

CA 27	Unseen Hollywood	3
CA 28	International Film	3
CA 29	Women in Film	3
CA 30	History and Appreciation of Film	3

Electives: (6 units)

CA 1	Mass Media and Society	3
CA 31*	Film Production I	3
CA 42*	TV/Film Directing	3
CA 100	Introduction to Radio, Television, and Film	3
CA 124*	Television Production I	3
CA 130*	Documentary Production	3
CA 142*	Television and Film Scriptwriting II	3
ENG 52*	Film as Literature	3
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience	1-3

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

†Must be taken concurrently

Pending State Approval

Specialty Area 6—Screen Acting and Voice Performance

Required Courses: (12 units)

CA 30	History and Appreciation of Film	3
CA 128*	Television and Radio News	3
CA 141	Voice-Over and Announcing	3
CA 213	Production Design for Film and Television	3

Electives: (6 units)

CA 1	Mass Media and Society	3
CA 31*	Film Production I	3
CA 42*	TV/Film Directing	3
CA 100	Introduction to Radio, Television, and Film	3
CA 124*	Television Production I	3
CA 125*	Television Production II	3
CA 130*	Documentary Production	3
CA 142*	Television and Film Scriptwriting II	3
CA 233*	Radio/Television/Film Internship	1
and		
CWE 180*	180 Cooperative Work Experience	1
TA 7*	Acting for Television and Film	3

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Cinema Production Occupational Skills Awards

The Cinema Production Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a filmic production from the conception to finished product. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks, including the production of several broadcast-quality short films suitable for use on a demonstration reel. Completion of this program increases the value of the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	*Title*	*Units*
CA 31*	Film Production I	3
CA 32*	Film Production II	3
	Select from Restricted Electives	9
	Total	**15**

Restricted Electives:

CA 40*	Television and Film Scriptwriting I	3
CA 42*	TV/Film Directing	3
CA 111*	Audio Sound Design for Television and Film	3
CA 131	Non-Linear Editing I	3
CA 142*	Television and Film Scriptwriting II	3
CA 206	Production Management	1
CA 208	Cinematography	2
CA 209	Script Supervising	3
CA 211	Film Production III	3
CA 212	Performance for Television and Film	3
CA 232*	Non-Linear Editing II	3
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Cinema	1

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

Critical Studies Occupational Skills Award

The Critical Studies Occupational Skills Award provides the opportunity to master the fundamental proficiencies to analyze and gain appreciation for visual and media literacy in general and motion pictures/cinematic communication in particular. The courses assist in student development by focusing on specific areas of cinematic history, appreciation and analysis. Completion of this skills award increases the value of the technical, aesthetic, and professional skills in the field of entertainment.

Course ID	*Title*	*Units*
CA 27	Unseen Hollywood	3
CA 28	International Film	3
CA 29	Women in Film	3
CA 30	History and Appreciation of Film	3
	Total	**12**

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

Post Production Occupational Skills Awards

The Post Production Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a film, television or electronic media production from the delivery of media to finished product. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks. Completion of this Occupational Skills Award increases the value of the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	*Title*	*Units*
CA 131	Non-Linear Editing I	3
CA 232*	Non-Linear Editing II	3
	Select from Restricted Electives	9
	Total	**15**

Restricted Electives:

CA 42*	TV/Film Directing	3
CA 111*	Audio Sound Design for Television and Film	3
CA 118/MUS 118	Digital Multi-Track Music Recording	4
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Post Production	1
CA 235*	Digital Special Effects	3

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

Radio Broadcasting Occupational Skills Awards

The Radio Broadcasting Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a radio production from the conception to finished product as well as to understand the principles of radio broadcasting and station management. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks, including the production of broadcast-quality radio programs suitable for use on a demonstration reel and the hands-on management of the college's flagship radio station KSBR. Completion of this program increases the value of the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	*Title*	*Units*
CA 110	Audio Production	3
CA 113*	Radio Broadcasting	3
	Select from Restricted Electives	9
	Total	**15**

Restricted Electives:

CA 111*	Audio Sound Design for Television and Film	3
CA 114*	Radio Station Activities	2
CA 115*	Advanced Radio Broadcasting	2
CA 118/MUS 118	Digital Multi-Track Music Recording	4
CA 128*	Television and Radio News	3
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Radio	1
CA 141	Radio and Television Announcing and Voice-Over	3

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

Television Production Occupational Skills Awards

The Television Production Occupational Skills Award provides the opportunity to master the fundamental proficiencies to complete a television production from the conception to finished product. The courses assist in student development by focusing on specific technical skills as well as working on practical assignments that mirror real-world tasks, including the production of broadcast-quality programs suitable for use on a demonstration reel. Completion of this program increases the value of the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field.

Course ID	*Title*	*Units*
CA 124*	Television Production I	3
CA 125*	Television Production II	3
	Select from Restricted Electives	9
	Total	**15**

Restricted Electives:

CA 40*	Television and Film Scriptwriting I	3
CA 42*	Television and Film Directing	3
CA 111*	Advanced Audio Production and Sound Design	3
CA 128*	Television and Radio News	3
CA 130*	Documentary Production	3
CA 131	Non-Linear Editing I	3
CA 142*	Television and Film Scriptwriting II	3
CA 206	Production Management	1
CA 208	Cinematography	2
CA 209	Script Supervising	3
CA 232*	Non-Linear Editing II	3
CA 233*†	Radio/Television/Film Internship	1
and		
CWE 180*†	Cooperative Work Experience: Television	1

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

Screen Acting and Voice Performance Occupational Skills Award

The Screen Acting and Voice Performance Occupational Skill Award prepares the student in all areas relating to the understanding and application of the skills necessary to perform in mass/electronic media, with particular emphasis on practical on-air/on-camera experience. Employment possibilities include: on-air talent, hosting, news, web-based promotions, film and television production roles, and numerous other vocational opportunities. This program provides and encourages both field and studio work in the student's area of specialty. Coursework may include participation in internships at various stations and facilities.

Course ID	*Title*	*Units*
CA 30	History and Appreciation of Film	3
CA 128*	Television and Radio News	3
CA 141	Voice-Over and Announcing	3
CA 213	Production Design for Film and Television	3
	Total	12

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

Computer and Information Management

The Computer and Information Management program includes industry standard programs that prepare students for careers using technology in the business workplace. The programs are: Applications Developer, E-Commerce Specialist, Network Administrator, Software Specialist, Web Designer, and Webmaster.

Applications Developer Certificate Program

This program is designed to prepare the student for entry-level employment as an applications developer.

Course ID	*Title*	*Units*
CIM 2A	Business Programming I: Visual Basic	3
CIM 7A*	Business Programming: Java—Beginning	3
CIM 205A	Web Development and DB: Intro SQL and MySQL	3
CIM 251*	Introduction to Networking	3
CIM 260A*	Microsoft ASP.NET—Beginning	3
CIM 269A*	Web Development: JavaScript—Beginning	1.5
CIM 271A*	Web Development: XHTML—Beginning	1.5
	Select from Restricted Electives	3
	Total	**21**

Restricted Electives:

CIM 2B*	Business Programming II: Visual Basic	3
CIM 6A	Business Programming I: C++	3
CIM 7B*	Business Programming: Java—Advanced	3
CIM 172*	Computer Operating Systems: Unix/Linux	3
CIM 205B*	Web 2.0: LAMP PHP/MySQL—Web Site Application Integration	3
CIM 225	Web Development: PHP	3
CIM 246*	Application Development for Excel with Visual Basic	3
CIM 248*	Visual Basic for Applications—Access	3
CIM 257*	Network and Security Administration using Unix/Linux	3
CIM 260B*	Microsoft ASP.NET—Advanced	3
CIM 269B*	Web Development: Advanced JavaScript/CSS/XML/DOM/AJAX	3
CIM 271B*	Web Development: XHTML—Advanced	1.5
CIM 288*	Intelligence Data Reporting	3
CIM 287*	Business Programming—C#	3
CIM 289*	Special Topics	1.5-3

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

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

E-Commerce Specialist Certificate Program

The E-Commerce Specialist Certificate program prepares the student to apply business functions to the web. All types of business sectors and activities can be web-based, including retail, wholesale, import-export, human resources, customer service, or departments within an organization. Electronic commerce, or e-commerce, is used in public and private business, both profit and non-profit sectors, in corporations, government, small businesses, professional associations, and personal applications as well. This program provides the skills for conducting business on the web, preparing an electronic approach, and managing an e-commerce web presence.

Course ID	*Title*	*Units*
CIM 218*	Database: Access	3
CIM 271A*/271B*	Web Development: XHTML—Beginning/Advanced	1.5, 1.5
CIM 272A*	Web 2.0 Design: Cascading Style Sheets—Beginning	1.5
CIM 272B*	Web Design and Web Development Overview—Intermediate	1.5
CIM 278A	Web Development: Dreamweaver—Beginning	1.5
CIM 298*‡	Web Design: Capstone Portfolio Project	1.5
	Select from Restricted Electives	9
	Total	**21**

Restricted Electives:

BUS 135	Elements of Marketing	3
BUS 138/CA 138	Advertising	3
BUS 195*†	Internship	1
and		
CWE 180*†	Cooperative Work Experience: Computer and Information Management	1
CIM 225	Web Development: PHP	3
CIM 264A/B*	Web Animation: Flash—Beginning/Intermediate	1.5, 1.5
CIM 264C*	Web Animation: Flash ActionScript—Beginning	3
CIM 264D*	Web Animation: Advanced Flash Sites and ActionScript Hacks	3
CIM 275	Web Marketing/Positioning	1.5
CIM 277*	E-Commerce and Web Site Design	3
CIM 278B*	Web Development: Dreamweaver—Advanced	1.5
CIM 279*	Information Security Fundamentals	3
CIM 281	Web Development: Macromedia Fireworks	1.5
CIM 289*	Special Topics	1.5-3

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

†Must be taken concurrently

‡Final course to be taken

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Network Administrator Certificate Program

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

Course ID	*Title*	*Units*
CIM 1	Introduction to Computer Information Systems	
or		*3*
CIM 10	Introduction to Information Systems	
or		
CIM 112	Microsoft Office	
CIM 172*	Computer Operating Systems: Unix/Linux	3
CIM 174+	Computer Operating Systems: Windows	3
CIM 251*	Introduction to Networking	3
CIM 252*	Networking Essentials and Technologies	3
	Select from Restricted Electives	6
	Total	**21**

Restricted Electives:

CIM 7A*/B*	Business Programming: Java—Beginning/Advanced	3, 3
CIM 171*	Computer Operating Systems: Windows Command Line—Interface	3
CIM 205A	web Development and DB: Intro S@L and MySQL	3
CIM 218*	Database: Access	3
CIM 227*	Internet and Web Essentials	1.5
CIM 230*	Business Presentations: PowerPoint	3
CIM 249	Administering Microsoft Windows Clients	3
CIM 253*	Supporting Windows Server	3
CIM 254*	Windows Server Active Directory Administration	3
CIM 256*	Fundamental Unix/Linux System Administration	3
CIM 257*	Network and Security Administration using Unix/Linux	3
CIM 258*	Advanced Network and Security Administration using Unix/Linux	3
CIM 259*	Windows Network Infrastructure Administration	3
CIM 271A*/B*	Web Development: XHTML—Beginning/Advanced	1.5, 1.5
CIM 279*	Information Security Fundamentals	3
CIM 289*	Special Topics	1.5-3
CIM 297	Interconnecting CISCO Network Devices	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: CIM 2A, 2B*, 6A, 214*, 216*, 216A*, 229A*; ECON 2, 4*; ET 215, 220, 225, 230.

Software Specialist Certificate Program

The Software Specialist Certificate program prepares the student for an entry-level position as a knowledge worker in the technical work environment using industry-standard software packages.

Course ID	*Title*	*Units*
CIM 1	Introduction to Computer Information Systems	
or		*3*
CIM 10	Introduction to Information Systems	
or		
CIM 112	Microsoft Office	
CIM 174+	Computer Operating Systems: Windows	3
CIM 214*+	Word Processing: Word	3
CIM 216*+	Spreadsheets: Excel	3
CIM 218*	Database: Access	3
CIM 230*	Business Presentations: PowerPoint	3
	Select from Restricted Electives	3
	Total	**21**

Restricted Electives:

CIM 121A/B*/C*	Keyboarding for Computers—Beginning/ Intermediate/Advanced	1.5, 1.5, 1.5
CIM 171*	Computer Operating Systems: Windows Command Line—Interface	3
CIM 172*	Computer Operating Systems: Unix/Linux	3
CIM 216C*	Spreadsheets: Excel—Advanced	1.5
CIM 223A*	Computerized Accounting: QuickBooks—Beginning	1.5
or		
CIM 223B*	Computerized Accounting: QuickBooks—Advanced	1.5
CIM 227*	Internet and Web Essentials	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 214, 215; CIM 229A*, 251*, 252*; ECON 2, 4*.

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 website. 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 website. Students may choose electives to round out their program.

Course ID	*Title*	*Units*
CIM 264A/B*	Web Animation: Flash—Beginning/ Intermediate	1.5, 1.5
CIM 271A*/B*	Web Development: XHTML—Beginning/Advanced	1.5, 1.5
CIM 274A	Web Digital Imagery: Photoshop—Beginning	1.5
CIM 278A/B*	Web Development: Dreamweaver—Beginning/Advanced	1.5, 1.5
CIM 298*‡	Web Design: Capstone Portfolio Project	1.5
	Select from Restricted Electives	6
	Total	**18**

Restricted Electives:

BUS 195*†	Internship	1
and		
CWE 180* †	Cooperative Work Experience: Computer and Information Management	2
CIM 205A	Web Development and DB: Intro SQL and MySQL	3
CIM 205B*	Web 2.0: LAMP PHP/MySQL—Web Site Application Integration	3
CIM 225	Web Development: PHP	3
CIM 229A*/B*	Business Graphics—Beginning/Advanced	1.5,1.5
CIM 260A*	Microsoft ASP. NET—Beginning	3
CIM 264C*	Web Animation: Flash ActionScript—Beginning	3
CIM 264D*	Web Animation: Advanced Flash Sites and ActionScript Hacks	3
CIM 269A*	Web Development: JavaScript—Beginning	1.5
CIM 269B*	Web Development: Advanced JavaScript/CSS/XML/DOM/AJAX	3
CIM 272A*	Web 2.0 Design: Cascading Style Sheets—Beginning	3
CIM 272B*	Web Design and Web Development Overview—Intermediate	1.5
CIM 274B*	Web Digital Imagery: Photoshop—Advanced	1.5
CIM 277*	E-Commerce and Web Site Design	3
CIM 281	Web Development: Macromedia Fireworks	1.5
CIM 289*	Special Topics	1.5-3

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

†Must be taken concurrently

‡Final course to be taken

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Webmaster Certificate Program

The Webmaster Certificate program prepares the student to build and administer a website and set up and maintain its web server. Students learn the technical aspect of server-level concerns of web construction and management to efficiently run websites in business and government organizations or for individuals. Topics include networking, security, web development, and database administration.

Course ID	*Title*	*Units*
CIM 7A*	Business Programming: Java—Beginning	3
CIM 172*	Computer Operating Systems: Unix/Linux	3
CIM 251*	Introduction to Networking	3
CIM 252*	Networking Essentials and Technologies	3
CIM 260A*	Microsoft ASP.NET—Beginning	3
CIM 271A*	Web Development: XHTML—Beginning	1.5
CIM 272A*	Web 2.0 Design: Cascading Style Sheets—Beginning	1.5
CIM 298*‡	Web Design: Capstone Portfolio Project	1.5
	Select from Restricted Electives	6
	Total	**25.5**

Restricted Electives:

BUS 195*†	Internship	1
and		
CWE 180*†	Cooperative Work Experience: Computer and Information Management	1
CIM 7B*	Business Programming: Java—Advanced	3
CIM 205A	Web Development and DB: Intro SQL and MySQL3	
CIM 205B*	Web 2.0: LAMP PHP/MySQL—Web Site Application Integration	3
CIM 256*	Fundamental Unix/Linux System Administration	3
CIM 257*	Network and Security Administration using Unix/Linux	3
CIM 258*	Advanced Network and Security Administration using Unix/Linux	3
CIM 260B*	Microsoft ASP.NET—Advanced	3
CIM 277*	E-Commerce and Web Site Design	3
CIM 279*	Information Security Fundamentals	3
CIM 289*	Special Topics	1.5-3

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

†Must be taken concurrently

‡Final course to be taken

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Information Security: Security Occupational Skills Award

The Information Security: Security Occupational Skills Award provides the opportunity to master the necessary computer information security concepts to successfully implement various InfoSec security strategies.

Course ID	*Title*	*Units*
CIM 279*	Information Security Fundamentals	3
CIM 282	Network Defense and Countermeasures	3
CIM 283	Information Security Management	3
CIM 284	Security+	3
	Total	**12**

Office & Computer Skills Occupational Skills Award

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.

Course ID	*Title*	*Units*
CIM 213A	Office Skills: Office Procedures	2.5
CIM 213B	Office Skills: Keyboarding	.5
CIM 213D	Office Skills: Windows	.5
CIM 213E	Office Skills: Word Processing (Word)	.5
CIM 213F	Office Skills: Spreadsheets (Excel)	.5
CIM 213G	Office Skills: Desktop Presentation for Business (PowerPoint)	.5
CIM 213H	Office Skills: Database (Access)	.5
CIM 213J	Office Skills: Desktop Publishing (Publisher)	.5
	Total	**6**

Computer Maintenance Technology Certificate Program

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.

Course ID	*Title*	*Units*
CIM 1	Introduction to Computer Information Systems	
or		*3*
CIM 10`	Introduction to Information Systems	
CIM 174+	Computer Operating Systems: Windows	3
CMT 215	Electronics for Computer Technologists	
or		*3*
ET 101	Survey of Electronics	
CMT 220*	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
CMT 230*	Applied Network Technology	3
CMT 235*	A+ Exam Preparation for Computer Service Technicians	3
	Total	**21**

*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.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: CIM 227*, 251*, 252*; ET 114*

Computer Science Associate Degree Program

The curriculum in the Computer Science Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering a major in computer science, earning the associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
CS 1A	Introduction to Computer Science	3
CS 1B*	Introduction to Programming	3
CS 1C*	Advanced Programming	3
CS 1D*	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	5
MATH 3B*	Analytic Geometry and Calculus	5
	Select from Restricted Electives	3-4
	Total	**31-32**

Restricted Electives:

CS 4A*	Introduction to Java for Computer Science	3
CS 4B*	Advanced Topics in Java for Computer Science	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: MATH 3C*, 24*, 26*.

Construction Inspection Certificate Program

This program is designed to provide technical and theoretical knowledge of construction and secure employment as in-house, agency, city, county, or state building safety inspector.

Course ID	*Title*	*Units*
ARCH 161	Blueprint Plans and Specification Reading	4
ARCH 163	International Building Code Inspection	4
ARCH 164*	Combination Residential Dwelling Inspection	3
ARCH 165	Electrical Code Inspection	3
ARCH 211	Concrete Inspection	3
ARCH 212	Plumbing Codes—Drains, Waste, Vents, Water, and Gas	3
ARCH 213	Mechanical Codes—Heating, Air Conditioning, Refrigeration, and Ductwork	3
	Total	**23**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer 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 benefits.

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 Affairs.

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
or		
FCS 142A, B, C	Life Management	1,1,1
CWE 180*	Cooperative Work Experience: Consumer Services	2
	Select one Specialty Area	6-7
	Total	**23-24**

Specialty Area 1—Foods and Nutrition:

FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3

Specialty Area 2—Interior Design:

ID 110	Fundamentals of Interior Design	3
ID 116	Interior Materials and Products	4

Specialty Area 3—Fashion:

FASH 31/BUS 31	Textiles	3
FASH 150	Fashion Apparel and Professional Techniques	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 12; 103, 104, 135, 137; FN 64, 160, 171, 252.

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. This 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.

Cosmetician Occupational Skills Award

The Cosmetician Occupational Skills Award is designed to prepare the student for licensure as a Cosmetician/Esthetician. The student will be able to administer skin care to clients at salons, spas, dermatology offices, private clinics, and stores specializing in skin care products.

Course ID	*Title*	*Units*
COS 440	Cosmetician	16
	Total	**16**

Manicuring Occupational Skills Award

The Manicuring Occupational Skills Award is designed to prepare the student for licensure as a Manicurist. The student will be able to administer nail care to clients at salons, spas, private clinics, and stores specializing in nail care products.

Course ID	*Title*	*Units*
COS 420	Manicuring	11
	Total	**11**

Cross-Cultural Studies Associate Degree Program

The curriculum in the Cross-Cultural Studies Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

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, Chicanas(os)/Latinas(os), Middle Eastern Americans, 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/sexual orientation, class, and religion. Other groups which have been isolated in a similar manner from the dominant culture in the United States may 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 Experiences in the United States	3
CCS 2	Multicultural Identities in the United States	3
Breadth Requirements		
Social and Behavioral Sciences		6
Humanities/Arts Perspective		6
Restricted Electives		3
	Total	**21**

Social and Behavioral Sciences

Select six units from the following courses:

Course ID	*Title*	*Units*
ANTH 4	Native American Indian Culture	3
ANTH 7	Indians of Southern California	3
CCS 10	Margins and Border Crossings	3
HIST 21	Women in United States History; A Multicultural Perspective	3
HIST 33	The Political/Social History of the Chicanas(os)	3
HIST 81	African American History	3
PSYC 16*	Introduction to Cross-Cultural Psychology	3
SOC 4	Introduction to Chicana(o) /Latina(o) 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/HIST 20	Ethnic Cultures of the United States	3

Humanities/Arts Perspective

Select six units from the following courses:

Course ID	*Title*	*Units*
CA 27	Unseen Hollywood	3
ENG 23A*	American Ethnic Writing: African American Literature	3
ENG 24*	Ethnic Voices in Literature: The American Experience	3
ENG 50*	Women Authors	3
MUS 27	History of Jazz	3
SPAN 21C*	Hispanic Culture and Literature in the United States	3
TA 110	Chicana(o)/Latina(o) Theatre	3

Restricted Electives

Select one course from the following:

ANTH 5, 21, ARAB 21*, ART 22, 23, 24, 29, CHI 21*, DANC 64, HIST 27, 28, 30, 70, 71, 72, 74, 75, HIST/PS 80, JA 21*, KOR 21*, MUS 23, PHIL 10*, PSYC 16*, SPAN 21A*, 21B*.

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: FASH 144; KNES 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.

Course ID	*Title*	*Units*
BUS 160	Small Business Management	3
FN 50	Fundamentals of Nutrition	3
FN 110*†	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 142*†	Classical Cuisine	2
FN 171	Sanitation and Safety	2
or		
FN 210	Servsafe in Food Production	1
FN 173*	Catering and Banquets	2
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
	Select from Restricted Electives	4
	Total	**23-24**

Restricted Electives:

FN 140*	Cultural Foods	2
FN 189/289	Special Topics: Foods and Nutrition	1
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 245*	Specialty and Savory Baking	2
FN 275	Food and Beverage Operations	3

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

†FN 110* and 142* recommended prior to CWE 180*.

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 201, 202; FCS 115, 142; FN 64, 160, 162.

Culinary Arts Certificate Program

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

Course ID	*Title*	*Units*
FN 50	Fundamentals of Nutrition	3
FN 110*†	Food Preparation Essentials	3
FN 142*†	Classical Cuisine	2
FN 171	Sanitation and Safety	2
or		
FN 210	Servsafe in Food Production	1
FN 173*	Catering and Banquets	2
FN 240*	Introduction to Culinary Arts	2
FN 242*	Modern Garde Manger - Cold Food Preparation	1
or		
FN 243*	Modern Garde Manger - Hot Food Preparation	1
FN 244*	Baking Basics	2
CWE 180*†	Cooperative Work Experience: Food and Nutrition	2
	Select two Specialty Courses	2-6
	Total	**20-25**

Specialty Courses:

FN 120*	Contemporary Meals	3
FN 140*	Cultural Foods	2
FN 189/289	Special Topics: Foods and Nutrition	1
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 275*	Food and Beverage Operations	3

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

†FN 110* and 142* recommended prior to CWE 180*.

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 104*, 135, 136, 160; FN 64, 160; FCS 115,134, 142.

Food Service Certificate Program

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

Course ID	*Title*	*Units*
CWE 180*	Cooperative Work Experience: Foods	1
FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 171	Sanitation and Safety	2
or		
FN 210	Servsafe in Food Production	1
FN 173*	Catering and Banquets	2
FN 240*	Introduction to Culinary Arts	2
	Select from Restricted Electives	2-4
	Total	**18-19**

Restricted Electives:

FN 220*	Country French Foods	2
FN 222*	Chinese Foods	2
FN 226*	Mexican Foods	2
FN 227*	Mediterranean Foods	2
FN 230*	Vegetarian Foods	2
FN 236*	American Regional Foods	2

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 104*, 135, 136, 160; FCS 115, 142; FN 64, 140*, 142*, 160.

Dance Associate Degree Program

The curriculum in the Dance Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

The following course of study must be completed to fulfill major requirements for the Associate Degree in Dance:

Course ID	*Title*	*Units*
DANC 9*	Choreography	3
DANC 10	Dance Production	
or		*2*
DANC 11	Dance Rehearsal and Performance	
DANC 52*	Ballet Dancing Level I	1-1.5
DANC 53*	Intermediate Ballet	1-1.5
DANC 55*	Modern Dance Level I	1-1.5
DANC 56*	Intermediate Modern Dance	1-1.5
DANC 58*	Jazz Dancing Level I	1-1.5
DANC 64	History of Dance	3
	Select from Restricted Electives	5.5-8
	Total	**21**

Restricted Electives:

DANC 51, 54, 57, 59*, 60, 61*, 62*, 63, 65, 66, TA 42.

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

Associate Degree

Associate in Arts Degree

Completion of the required courses 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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Drafting Technology Certificate Program

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.

Course ID	*Title*	*Units*
DR 23*	Engineering Graphics and Descriptive Geometry	
or		*3*
DR 100	Fundamentals of Mechanical Drafting	
DR 50*/ARCH 50*	Introduction to Computer-Aided Drafting	3
DR 51*/ARCH 51*	Computer-Aided Drafting	3
DR 101*	Mechanical Drafting	3
DR 102*	Mechanical Drafting and Design	3
DR 120*	Fundamentals of Technical Illustration	2
DR 152*/ARCH 152*	Advanced Computer-Aided Drafting	3
	Select from Restricted Electives	3
	Total	**23**

Restricted Electives:

ET 101	Survey of Electronics	3
MFG 200*	Introduction to Rapid-Prototyping Technology	3
MFG 204*	3D Computer-Aided Design-Solidworks	3

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

Students who have completed one year of high school mechanical drafting, or equivalent, are exempt from taking DR 100.

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ARCH 124A; CIM 1A; CS 1A; GEOL 23/ENV 23; MATH 124*, 251*, 253*, 255*; 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.

Course ID	*Title*	*Units*
ECOL 201	Ecological Restoration Techniques	4
ECOL 202	Advanced Ecological Restoration Techniques	4
ENV 1	Introduction to Environmental Studies	3
ENV 18	Introduction to Ecology	4
	Select from Restricted Electives	13
	Total	**28**

Restricted Electives:

ENV 24	Natural History of California	3
ENV 105*	Environmental. Studies Internship	2
and		
CWE 180*	Cooperative Work Experience: Ecological Restoration	1
ENV 123/HORT 123	Water and Soil Conservation	3
ENV 189	Special Topics	.5-4
HORT 29	Ornamental Native Plants	3
HORT 113	Soils and Fertilizers	3
HORT 116	Irrigation Systems	3
ENV 202	Green Living	2

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

RECOMMENDED ELECTIVES: ARCH 50/DR 50*; ENV 106; GIS 110*/GEOG 110*; GEOL 23/ENV 23.

Economics Associate Degree Program

The curriculum in the Economics Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this major, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Course ID	*Title*	*Units*
ECON 2	Principles (Macro)	3
ECON 4*	Principles (Micro)	3
MATH 3A*	Analytic Geometry and Calculus	
or		*5*
MATH 11*	A Brief Course in Calculus	
MATH 3B*	Analytical Geometry and Calculus	5
or		
MATH 10*	Introduction to Statistics	3
	Select from Restricted Electives	3-5
	Total	**21-24**

Restricted Electives:

ACCT 1A, 1B*; BUS 1, 104; CIM 1, 10; CS 1A; HIST 7, 8; MATH 3C*, 24, 26; PS 11/ECON 11.

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

Associate Degree

Associate in Arts Degree

Complete units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Education

The Education department prepares students for a diverse range of teaching opportunities at a variety of levels. The program provides support for those just entering the field as well as to those who are already working in the classroom and community. Classes that meet the early fieldwork and exceptional children coursework requirements of the California Commission on Teacher Credentialing can also be found in this department.

The Educational Assistant Program prepares students to assist teachers in K-12 settings as paraprofessionals. Specialized course work is also available for students interested in working in bilingual/multicultural settings or working with children with special needs.

The Online Educator Program provides professional development skills for secondary and post secondary instructors who are interested in learning about or improving their online teaching skills.

Educational Assistant Occupational Skills Award

The purpose of the Educational Assistant award is designed to provide a system of professional development for individuals working as educational assistants in a variety of elementary classroom settings.

Course ID	*Title*	*Units*
CD7* /PSYC 7*	Developmental Psychology: Child Growth and Development	3

CD 15*/SOC 15*	Child, Family, and Community	3
CD 111*	Child Guidance and Communication	3
EDUC 289	Special Topics: Child Development	3
	Total	**12**

Online Educator Occupational Skills Award

This program offers an opportunity for secondary and post secondary instructors to learn about online teaching in a practical, hands-on environment. Coursework is specifically designed to provide new and experienced online instructors information about the development and implementation of best practices in online course delivery and the use of course management systems as supplements to face to face courses. Participants will be introduced to a wide variety of instructional technologies, curriculum design models, assessment methods, quality indicators for online instruction, and strategies to meet state and federal laws for universal design using current educational research as a foundation.

Course ID	*Title*	*Units*
EDUC 200	Introduction to Online Teaching	2
EDUC 205	Models of Online Instruction	2
EDUC 210	Technology for Online Instruction	2
EDUC 215	Curriculum for Online Instruction	2
EDUC 220	Universal Design for Online instruction	2
EDUC 225	Student Assessment for Online instruction	2
	Total	**12**

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.

Course ID	*Title*	*Units*
ET 114*	Digital Electronic Circuits	4
ET 118*	Electronic Communication Systems	4
ET 133	D.C. and A.C. Fundamentals	4
ET 135*	Semiconductor Devices and Circuits	4
ET 200*	Digital Signal Processing and Microcontrollers	4
	Total	**20**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: Any Electronic Technology course not taken in certificate program; CMT 220*, 225*, 230*; MATH 7*, 124*, 251*, 253*; PHYS 2A*, 2B*, 20.

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.

Course ID	*Title*	*Units*
CMT 220*	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
ET 114*	Digital Electronic Circuits	4
ET 133	D.C. and A.C. Fundamentals	4
ET 135*	Semiconductor Devices and Circuits	4
ET 200*	Digital Signal Processing and Microcontrollers	4
	Total	**22**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: Any Electronic Technology course not taken in certificate; CMT 230*; CS 1B*, 3A*, 3B*; MATH 7*, 124*, 251*, 253*; PHYS 2A*, 2B*, 20.

General Electronic Technology Certificate Program

This program provides the student an education in the fundamentals of electronics and maximum flexibility to take elective courses of personal interest and complete a certificate in the shortest period of time. This program prepares the student for entry-level employment as an Electronic Technician at many companies.

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 133	D.C. and A.C. Fundamentals	4
ET 135*	Semiconductor Devices and Circuits	4
ET 200*	Digital Signal Processing and Microcontrollers	4
	Select from Restricted Electives	2-4
	Total	**18-20**

Restricted Electives:

ET 118*	Electronic Communication Systems	4
ET 189/289	Special Topics	2-4
ET 201	Robotic Fundamentals	2

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: Any Electronic Technology course not taken in certificate; CIM 10, CMT 220*, 225*, 230*; MATH 7*, 124*, 251*, 253*, 255*; PHYS 2A*, 2B*, 20.

Emergency Medical Technician Occupational Skills Award

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.

Course ID	Title	Units
EMT 205*	Emergency Medical Technician Procedures	6
EMT 205L*	Emergency Medical Technician Lab	.5
	Total	**6.5**

Engineering Associate Degree Program

The curriculum in the Engineering Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Course ID	Title	Units
First Year		
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
CS 1A	Introduction to Computer Science	3
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
Second Year		
MATH 3C*	Analytic Geometry and Calculus	5
MATH 24*	Elementary Differential Equations	4
MATH 26*	Introduction to Linear Algebra	4
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
	Total	**51**

*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.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

English as a Second Language Completion Certificate

BEGINNING LEVEL

The beginning level multiskills courses leading to a certificate prepare students for the next level by working on all four language skills, including reading, writing, speaking, and listening. Students acquire a practical communicative vocabulary, rudimentary skills in conversation, composition, and comprehension as well as an introduction to the American sound system.

Course ID	Title	Hours
ESL 320*	Beginning Multiskills I	99.6
and		
ESL 999*	ESL Laboratory	16.6
ESL 321*	Beginning Multiskills II	99.6
and		
ESL 999*	ESL Laboratory	16.6
ESL 322	Beginning Conversation	49.8
ESL 323*	Beginning Pronunciation	33.2
and		
ESL 999*	ESL Laboratory	16.6
ESL 325*	Beginning Reading and Writing	49.8
	Total Semester Hours	**381.8**

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

INTERMEDIATE LEVEL-PRE COLLEGE

The intermediate level multiskills courses leading to a certificate prepare students for the next level by working on all four language skills, including reading, writing, speaking, and listening while acquiring a practical communicative vocabulary of approximately 1400-1800 words. Additionally students complete specialized courses designed to further develop skills in conversation, composition and comprehension as well as focus on intonation and sounds of American English.

CORE COURSES

Course ID	*Title*	*Hours*
ESL 330*	Intermediate Multiskills I	99.6
ESL 331*	Intermediate Multiskills II	99.6
ESL 332*	Intermediate Conversation	49.8
ESL 333 *	Intermediate Pronunciation	49.8
and		
ESL 999*	ESL Laboratory	16.6
Select one Reading and Writing course:		
ESL 335*	Intermediate Reading and Writing I	49.8
or		
ESL 336 *	Intermediate Reading and Writing II	49.8
and		
ESL 888*	ESL Skills Lab	16.6
	Total Semester Hours	**381.8**

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

ADVANCED LEVEL

The required course advanced level multiskills courses leading to a certificate prepare students to mainstream academic or vocational courses by focusing on reading, writing, and grammar while acquiring a more academic vocabulary of an additional 300-500 words. Additionally, students have options within the two remaining required classes. One option is designed to further develop skills in conversation on a variety of topics, vocabulary including affixes, or nuances in pronunciation patterns of American English. The options within the second requirement expose students to American culture through film, literature, or simulated college lectures. These advanced courses transition into mainstream coursework.

CORE COURSES

Course ID	*Title*	*Hours*
ESL 340*	Advanced Multiskills	99.6
ESL 342*	Advanced Conversation	49.8
ESL 343*	Advanced Pronunciation	49.8
and		
ESL 999*	ESL Laboratory	16.6
Select one Vocabulary course:		
ESL 344*	Idioms and Expressions in American English	33.2
or		
ESL 354*	Vocabulary Skills for College	49.8
Select one Academic/Writing course:		
ESL 350*	Essential Academic Skills	99.6
or		
ESL 346*	Advanced Writing for Work	49.8
or		
ESL 345*	Advanced Reading and Writing	49.8
and		
ESL 888*	ESL Skills Lab	16.6
Select one Grammar course with a lab		
ESL 347*	Advanced Grammar Review	49.8
and		
ESL 999*	ESL Laboratory	16.6
or		
ESL 357*	Grammar Review for College	49.8
and		
ESL 999*	ESL Laboratory	16.6
	Select one Restricted Elective from below	49.8
	Total Semester Hours	**348**

Restricted Electives:

ESL 355*	ESL Reading for College: American Literature	49.8
ESL 358*	Listening and Note taking Skills for College	49.8
ESL 359*	American Language and Culture through Film	49.8

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

English Literature Associate Degree Program

The curriculum in the English Literature Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Course ID	*Title*	*Units*
ENG 1A*	Principles of Composition I (meets AA Writing Proficiency requirement)	3
ENG 1B*	Principles of Composition II	3
	Select from Restricted Electives	12

Restricted Electives:

ENG 15A*, 15B*, 17A*, 17B*, 18*, 19*, 20*, 21A*, 21B*, 27A*, 27B*, 27E*.

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ENG 23A*, 44*, 46*, 50*, 52*; HIST 4, 5; PHIL 1*, 12*. Completion of four college semesters, or the equivalent, of a foreign language is strongly recommended.

Environmental Studies Associate Degree Program

Environmental Studies in an interdisciplinary program that provides students with an integrated and critical knowledge of the natural environment and the relationships and interactions humans have with it. The program provides students with the understanding that environmental challenges face every aspect of society, and it provides them with the skills needed to help solve these complex problems through cooperation and negotiation with the different and often competing stakeholders. The program combines classroom, laboratory, and field study instruction giving students a well-rounded preparation in the field of environmental studies.

The curriculum in the Environmental Studies Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Course ID	*Title*	*Units*
ENV 1	Introduction to Environmental Studies	3
ENV 18	Introduction to Ecology	4
	Select from Restricted Electives	11
	Total	**18**

Restricted Electives:

ENV 6*/ECON 6*	Scarcity and Environment	3
ENV 19*/BIO 19*	Marine Biology	4
ENV 23/GEOL 23	Environmental Geology	4
ENV 24	Natural History of California	3

ENV 25	Environmental Hazards to Health	3
ENV 30	Alternative Energy Technologies	3
ENV 40	Environmental Law and Policy	3
ENV 105*	Environmental Studies Internship	2
and		
CWE 180*	Cooperative Work Experience: Environmental Studies	1
ENV 106	Natural Resource Conservation	3
ENV 120/CHEM 120	Chemistry of Everyday Life	4
ENV 123/HORT 123	Water and Soil Conservation	3
ENV 189	Special Topics	.5-4

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ANTH 2; ARCH 12; BIO 3A*, 3B*; CHEM 1A*, 1B*; CIM 1; CS 1A, 1B or higher programming course; GEOG 1; GEOL 1; HORT 29; PHYS 2A*, 2B*.

Sustainability Studies Occupational Skills Award

The goal of Sustainability Studies is to create ecologically and socially appropriate solutions to manage our human needs, impacts with the built environment, and the emerging green economy within the capacity of nature without compromising future generations. The goal is to educate students on the importance of sustainability and then train them how to become sustainable not only in their everyday lives, but in their careers as well. Students will be prepared to transfer to sustainability related programs at the university level, be at an advantage for jobs in the coming green economy, be positioned to develop new businesses and other employment opportunities, and become more engaged citizens.

Course ID	*Title*	*Units*
ENV 1	Introduction to Environmental Studies	3
ENV/ECON 6*	Scarcity and Environment	3
ENV 202	Green Living	2
	Selected from Restricted Electives	6
	Total	**14**

Restricted Electives:

ENV 30	Alternative Energy Technologies	3
ENV 106	Natural Resource Conservation	3
ENV/HORT123	Water and Soil Conservation	3

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 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*
FASH 31/BUS 31	Textiles	3
FASH 110*	Contemporary Clothing Construction	3
FCS 115	Consumer Issues	3
FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
ID 110	Fundamentals of Interior Design	3
ID 121*	Space Planning	3
	Select from Restricted Electives	6
	Select from Special Topics	.5-3
	Total	**27.5-30**

Restricted Electives:

FASH 112*	Fashion Sewing—Advanced	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FCS 142	Life Management	3
or		
FCS 142 A, B, C	Life Management	1,1,1
FN 64	Nutrition Issues	3
FN 120*	Contemporary Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3
FN 171	Sanitation and Safety	2
FN 210	Servsafe in Food Production	1
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3

Special Topics:

FASH 189/289	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: FCS 101; FASH 120*, 130*, 140; FN 140*, 142*, 171.

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 of the following certificate programs: Fashion Design and Advanced Fashion Design and Apparel Manufacturing. 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/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 111*	Fashion Sewing—Intermediate	3
FASH 112*	Fashion Sewing—Advanced	
or		*3*
FASH 124*	Wearable Art	
or		
FASH 211*	Advanced Dressmaking & Custom Sewing	3
FASH 130*	Flat Pattern Design	4
FASH 132*	Draping Fashion Designs	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 145*/BUS 145*	Internship	1
or		
FASH 160*†	Fashion Fieldwork	2
and		
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 189/289	Special Topics: Fashion	.5-3
or		
FASH 254	Fashion in Southern California	1
FASH 260*	Computer Applications in Fashion	2
or		
GD 149*	Digital Illustration	3
or		
FASH 204	AIMS Certification	1
	Total	**34.5-43**
Optional Lab/Studio		
FASH 212	Construction Lab	1
FASH 213*	Designer's Lab	1
FASH 214*	Couture Lab	1

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 114, 215; BUS 136, 138, 160; FCS 115; FASH 120*, 147, 209*, 221*,230*, 235*, 236; TA 42.

Advanced Fashion Design and Apparel Manufacturing Certificate Program

The Advanced Fashion Design and Apparel Manufacturing certificate prepares the Fashion 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.

Course ID	*Title*	*Units*
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 111*	Fashion Sewing—Intermediate	3
FASH 112*	Fashion Sewing—Advanced	3
or		
FASH 211*	Advanced Dressmaking & Custom Sewing	3
FASH 113*	Couture Sewing	2
FASH 124*	Wearable Art	
or		*3*
FASH 240	Dye Processes on Fabrics	
or		
FASH 205*	Corset Construction	3
FASH 130*	Flat Pattern Design	4
FASH 132*	Draping Fashion Designs	3
FASH 136*	Apparel Design	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 145*/BUS 145*	Internship	1
or		
FASH 160*†	Fashion Fieldwork	2
and		
CWE 180*†	Cooperative Work Experience: Fashion	1
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 189/289	Special Topics: Fashion	.5-3
or		
FASH 254	Fashion in Southern California	1
FASH 234*	Advanced Pattern and Design Techniques	
or		*2*
FASH 238*	Advanced Draping and Fashion Design	
FASH 235*	Designing for the Fashion Industry	2
FASH 260*	Computer Applications in Fashion	2
or		
GD 149*	Digital Illustration	3
or		
FASH 204	AIMS Certification	1
	Total	**46.5-53**
Optional Lab/Studio		
FASH 212	Construction Lab	1
FASH 213*	Designer's Lab	1
FASH 214*	Couture Lab	1

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 114, 215; ART 42*; CIM 1A; FASH 120*, 143, 147, 209*, 221*; GC 101, TA 42.

Basic Costume Construction and Sourcing Occupational Skills Award

The Basic Costume Construction and Sourcing Occupational Skills Award prepares the student with the basic skills necessary to source and construct costumes for a costume designer working in the areas of: film, television, dance, theater/opera, theme parks, special events, cultural/ethnic costumes, costume shops, e-commerce, uniform/sports, and advertisement/promotion. Course work covers material sourcing, costume, and underpinning construction for different audiences, costume history, textiles and dyeing, draping, pattern making, drafting, and an internship in the field.

Course ID	*Title*	*Units*
FASH 31	Textiles	3
FASH 111*	Intermediate Sewing	3
FASH 132*	Draping Fashion Design	3
FASH 144	Fashion Trends	3
or		
TA 42	Costume Design	3
FASH 205*	Corset Construction	3
or		
FASH 240	Dye Processes on Fabrics	3
FASH 145*	Internship	1
CWE 180*	Cooperative Work Experience: Fashion	1
	Total	**17**

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

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.

The Fashion Merchandising program includes two certificates: Fashion Merchandising and Visual Fashion Merchandising.

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.

Course ID	*Title*	*Units*
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 143/BUS 143	Fashion Buying and Merchandising	
FASH 140	Fashion Image	3
or		
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 147/BUS 147	Special Events Coordination and Promotion	3
FASH 148/BUS 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
	Select one course from each Group	10.5-15
	Total	**33.5-39**
Group 1		
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 160	Small Business Management	3
Group 2		
FASH 260*	Computer Applications in Fashion	2
GD 147	Introduction to Computer Graphics	3
GD 149*	Digital Illustration	3
FASH 204	AIMS Certification	1
Group 3		
FASH 100	Fashion Sewing-Beginning	3
FASH 110*	Contemporary Clothing Construction	3
Group 4		
FASH 189/289	Special Topics: Fashion	.5-3
FASH 254	Fashion in Southern California	1
Group 5		
FASH 145*/BUS 145*	Internship	1
or		
FASH 160*†	Fashion Fieldwork	2
and		
CWE 180*†	Cooperative Work Experience: Fashion	1
Optional Lab/Studio		
FASH 212	Construction Lab	1

*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.

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 114; BUS 12A; BUS 103, 125, 136, 137, 138; FCS 115; FASH 145*/BUS 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.

Course ID	*Title*	*Units*
FASH 31/BUS 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 143/BUS 143	Fashion Buying and Merchandising	3
FASH 144	Fashion Trends	3
FASH 147/BUS 147	Special Events Coordination and Promotion	3
FASH 148/BUS 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
CWE 180*†	Cooperative Work Experience: Fashion	1
	Select one course from each Group	6-10
	Total	**31-37**
Group 1		
ART 42*	Color Theory and Practice	3
ART 100	Art Gallery/Display and Exhibition	3
ID 114	Applied Color and Design Theory for Interior Design	4
Group 2		
GD 144/ART 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 149*	Digital Illustration	3
FASH 204	AIMS Certification	1
Group 3		
FASH 145*/BUS 145*	Internship	1
or		
FASH 160*†	Fashion Fieldwork	2
and		
CWE 180*†	Cooperative Work Experience: Fashion	1

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ART 20, 40, 41*, 42*, 50*, 80; BUS 138/CA138; FASH 110*, 154, 160, 254; GC 101, GD 141/ART 141, 144; ID 110, 112, 121, 127, TA 44*.

Fine and Applied Arts Associate Degree

The curriculum in the Fine and Applied Arts Associate Degree program provides the student the opportunity to design an interdisciplinary degree by selecting appropriate courses in the Fine or Applied Arts which may support attempts to gain entry-level employment in such areas as architectural drafting, graphics design, horticulture, interior design, photography and performing arts.

Select a minimum of 18 units from the following including a minimum of 12 units in one discipline:

Architecture	ARCH 10, 12, 34*, 42*, 44*, 124A/B*/C*, 136*
Art/ Graphic Design	ART 4, 9*, 10*, 11*, 12*, 13*, 20, 21, 22, 23, 24, 25, 26, 28, 29, 40, 41*, 42*, 50*, 51*, 52, 53*, 54*, 57*, 58*, 59*, 60*, 61*, 62*, 63, 70, 71*, 72*, 78, 79*, 80, 81*, 82*, 85*, 86*, 87*, 100, 120, 133*, 134*, 140, 141, 142, 144, 145, GD 148*, 149*, 150*, 151, 175, GC 63, 101
Communication Arts	CA 29, 30, 31*, 32*, 40*, 42*, 100, 101, 110, 113, 124, 125, 128, 141, 142
Dance	DANC 9*, 51, 52*, 53*, 54, 55*, 56*, 57, 58*, 59*, 60, 61*, 62*, 64, 66
Fashion	FASH 124*, 136*, 144, 154
Horticulture	HORT 7, 10, 11, 20, 106, 109, 115,116, 130
Interior Design	ID 110, 111*, 112, 114, 122, 123*, 125, 126*, 127*, 133*
Music	MUS 1, 10*, 11*, 12*, 14*, 15*, 20, 23, 24, 25, 26, 27, 28, 29, 31*, 32*, 33*, 34*, 35*, 40*, 41*, 42*, 43*, 44, 46*, 47*,50*, 51*, 52*, 54, 55*, 56*, 58*, 60, 61*, 62*, 63, 64*, 65*, 66*, 67, 75*, 80, 81*, 82*, 92*, 93*,117*,118, 148, 178*, 179*
Photography	PHOT 25, 50, 51*, 55*, 152*, 156*, 158, 160*, 190
Theatre Arts	TA 1, 2*, 3*, 4*, 5*, 7*, 10, 11, 12*, 15, 16, 17, 18, 19, 20, 22, 25, 26, 30, 32*, 35, 40, 41*, 42, 43, 44*, 45*, 100, 101, 102, 104, 105, 108, 110 113, 130, 142, 201
	Total **18**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

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*†	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 140*	Cultural Foods	2
FN 142*†	Classical Cuisine	2
FN 171	Sanitation and Safety	2
or		
FN 210	Servsafe in Food Production	1
FN 189/289	Special Topics: Foods and Nutrition	1
FN 232*	Lite Cuisine Strategies	2
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
	Select from Specialty Courses	6-7
	Total	**25-27**

Specialty Courses:

FN 173*	Catering and Banquets	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 236*	American Regional Foods	2
FN 244*	Baking Basics	2
FN 245*	Specialty and Savory Baking	2
FN 275	Food and Beverage Operations	3

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

†FN 110* and 142 recommended prior to CWE 180*.

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

General Education (IGETC or CSU-GE) Certificate of Achievement

Students may earn a certificate of achievement in general education upon completion of a pattern of approved courses intended for transfer.

Intersegmental General Education Transfer Curriculum (IGETC)

Completion of a minimum of 34 units including all requirements of the Intersegmental General Education Transfer Curriculum.

California State University General Education Certification (CSU-GE)

Completion of a minimum of 39 units including all of the requirements of the California State University General Education certification.

SEE THE ARTICULATION/TRANSFER PATTERN SECTION OF THE CATALOG FOR A LIST OF SPECIFIC COURSE REQUIREMENTS

General Studies Associate Degree

The General Studies Associate degree provides an opportunity for students to earn an comprehensive Associate of Arts (AA) and is intended for the student who may not be planning to transfer to a university in the near future. Completion of an associate degree may support efforts to gain entry-level employment or promotion.

The Associate Degree in General Studies requires completion of all Core, Competency, and Breadth requirements as indicated under Graduation Requirements in this catalog (a minimum of 25 units).

Select 18 units from one of the following areas of emphasis:

FINE ARTS AND HUMANITIES

Students develop aesthetic understanding including an appreciation of philosophical, historical, and cultural importance and an awareness of the ways in which people responded to themselves and the world around them. Included are artistic and cultural creations and the development of aesthetic understanding and an ability to make value judgements.

ARAB 1*, 2*, 21*
ARCH 12
ART 4, 20 , 21*, 22*, 23*, 24*, 25, 26, 28, 29*
CA 29*, 30
CHI 1*, 2*, 21*
DANC 64
ENG 3*, 4*, 5*, 15A*, 15B*, 17A*, 17B*, 18*, 19*, 20*, 21A*, 21B*, 23A*, 24*, 25*, 27A*, 27B*, 27E*, 44*, 50*, 52*, 142*
FASH 144*
FA 27
FR 1*, 2*, 3*, 4*
GER 1*, 2*, 3*, 4*
HIST 4, 5
HORT 115
HUM 1*, 3*, 10A*, 10B*, 21/IDS 1*, HUM 22*/IDS 2*, HUM 25*/IDS 5*
ID 110, 122, 125
ITA 1*, 2*, 3*, 4*, 21*
JA 1*,2*, 21*
KOR 21*
MUS 1, 20, 23*, 24, 25, 26, 27, 28, 29*
PHIL 1*,10*, 15
PHOT 25
PRSN 1*, 2*, 3*, 4*
SL 1*, 2*, 3*, 4*
SP 30/TA 30,SP 32*/TA 32*
SPAN 1*, 2*, 3*, 4*, 6*,
TA 20, 22, 25, 26, 110*

NATURAL SCIENCES

Students will develop an appreciation and understanding of the scientific method and an understanding of the relationships between science and other human activities.

ANTH 1 and 1L *(ANTH 1L must be taken concurrently with ANTH 1 or within one year after completing ANTH 1)
ASTR 20 and 25 combined

BIO 3A*, 3B*, 11*, 15*, BIO 19/ENV 19*, BIO 20, 113
CHEM 1A*, 3*, 108*, 120/ENV 120
ENV 18, 24
GEOG 1 and 1L* (GEOG 1L must be taken concurrently with GEOG 1 or within one year after completing GEOG 1)
GEOL 1, 20, 23/ENV 23
HORT 20
MS 4, 20
PHYS 2A*, 4A*,* 20

SOCIAL AND BEHAVIORAL SCIENCES

Courses will stimulate critical skills about the ways people act and have acted in response to their societies and will promote appreciation of how societies and social subgroups operate.

ANTH 2 *, 3*, 4*, 5, 8, 9, 10, 11, 17, 20*/ SP 20*, ANTH 21*, 42
BUS 1
CD 7*/PSYC 7*+, CD 15*/SOC 15*
CCS 1*, 2*, 10*
ECON 2, 4*, 20
ENV 1
GEOG 2*, 3
HIST 12*, 19, 20*/SOC 20*, HIST 21*, 27*, 28*, 30*, 33*, 61*/PS 61*, HIST 62, 63, 70*, 71*, 72*, 74*, 75*/PS 75*, HIST 80*/PS 80*, HIST 81*
HS 100, 120, 186
JRN 1/CA 1
PS 4, 11/ECON 11; PS 12*, 14*
PSYC 1, 16*, 21*
SOC 1, 2, 4*, 6*, 10, 21*, 25
WS 10*, 40*

Total **18**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

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.

Course ID	*Title*	*Units*
CIM 2A	Business Programming I: Visual Basic (for Business Majors)	3
DR 50*/ARCH 50*	Introduction to Computer-Aided Drafting	3
GIS 110*/GEOG 110*	Introduction to Geographic Information Systems (GIS)	2
GIS 211*/GEOG 211*	Intermediate Geographic Information Systems (GIS)	2
GIS 212*	Advanced Geographic Information Systems	2
GEOG 1	Physical Geography	3
GEOG 1L*	Physical Geography Lab (Taken within one year of GEOG 1)	1
	Select from Restricted Electives	3-4
	Total	**19-20**

Restricted Electives:

ANTH 2	Cultural Anthropology	3
ANTH 9	Introduction to Archaeology	3
BUS 135	Introduction to Marketing	3
ENV 18	Introduction to Ecology	4
ENV 23/GEOL 23	Environmental Geology	4
GEOG 2	Cultural Geography	3
GEOG 3	World Regional Geography	3
GEOG 38	California Geography	3
GEOL 1	Introduction to Physical Geology	4
GEOL 3	Geology of California	3

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

Geography Associate Degree Program

The curriculum in the Geography Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Course ID	*Title*	*Units*
GEOG 1	Physical Geography	3
GEOG 2	Cultural Geography	3
GEOG 3	World Regional Geography	3
	Select from Restricted Electives	9-13
	Total	**18-22**

Restricted Electives:
ANTH 1, 2; GEOG 38; GEOL 1; HIST 4, 5, 32; PS 11/ECON 11, PS 14.

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Geology Associate Degree Program

The curriculum in the Geology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment and promotion.

Course ID	*Title*	*Units*
First Year—Fall Semester		
CHEM 1A*	General Chemistry	5
GEOL 1	Introduction to Physical Geology	
or		*4*
GEOL 20	Introduction to Earth Science	
MATH 2*	Pre-Calculus (required of students unprepared for MATH 3A*)	(5)
Spring Semester		
CHEM 1B*	General Chemistry	5
GEOL 2*	Historical Geology	4

MATH 3A*	Analytic Geometry and Calculus	5
Second Year—Fall Semester		
BIO 3A*	General Biology I	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 2A*	Introduction to Physics	
or		*5*
PHYS 4A*	General Physics	
Spring Semester		
GEOL 6*	Principles of Mineralogy	4
PHYS 2B*	Introduction to Physics	
or		*5*
PHYS 4B*	General Physics	
	Total	**47-52**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: GEOL 3, 4, 5*, 7, 10, 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.

Course ID	*Title*	*Units*
GERO 101	Fundamentals of Aging	1.5
GERO 110	Psychology of Aging	1.5
GERO 115	Sociology of Aging	1.5
GERO 120	Physiology of Aging	1.5
GERO 145	Activity Leadership	3
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3
HS 120	Human Development in the Social Environment	3
HS 140	Applied Group Leadership and Group Process	
or		*3*
HS 174	Intervention and Referral Techniques	
HS 150*	Field Instruction and Seminar II	3
HSC 222	Basic Life Support/CPR for Health Care Providers	.75
	Total	**24.75**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer 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, Pre-Press Technician, Computer Animator, and Multimedia Producer.

Course ID	*Title*	*Units*
GD 144/ART 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 148*	Digital Graphic Design	3
GD 149*	Digital Illustration	3
GD 150*	Digital Animation	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3
	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: GC 101, ART 140/GD 140, 141, 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 Computer Pre-Press/Desktop Publisher.

Course ID	*Title*	*Units*
GC 63/ART 63	Introduction to Screen Printing	3
GC 195*	Graphics Studio	3
GC 101	Introduction to Graphic Communications	3
GD 144/ART 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3
GC 210	Letterpress	3
	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: GD 140/ART 140, 141, 142, 144.

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.

Course ID	*Title*	*Units*
GD 140/ART 140	Beginning Graphic Design	3
GD 142/ART 142	Package Design	3
GD 145/ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149*	Digital Illustration	3
GD 154*	Digital Pre-Press	3
GD 200	Photoshop Skills for Graphic Designers	3
GD 240/ART 240	Intermediate Graphic Design	3
CWE 180*	Cooperative Work Experience: Graphics	1
	Total	**25**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ART 40, 41, 80, 85; GC 101.

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.

Course ID	*Title*	*Units*
GD 141/ART 141	Graphic Rendering Techniques	3
GD 144/ART 144	Typography	3
GD 145/ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149*	Digital Illustration	3
GD 150*	Digital Animation	3
GD 241	Airbrush Techniques	3
	Total	**21**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ART 40, 80, 85*.

Health Sciences Associate Degree

The Health Sciences Associate Degree program is designed to provide students the opportunity to achieve an associate degree in health sciences which may include courses required for preparation for transfer to a CSU or for employment in areas such as emergency medical technician, medical assistant, medical insurance billing and coding, nursing assistant, paramedic or phlebotomist.

Transfer Health Sciences majors should complete the general education certificate to meet general education requirements (34-39 units), either the California State University General Education (CSU-GE) requirements or the Intersegmental General Education Curriculum (IGETC).

Refer to ASSIST.org or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for this area of emphasis should reflect requirements of the college or university to which the student plans to transfer. Consult with a counselor for assistance in planning a transfer program in Health Sciences.

This program is not the associate degree in nursing and does not meet the State Board of Registered Nursing requirements for licensure in the state of California. Students interested in achieving a degree in Nursing should see the Nursing Associate Degree.

Select 18 from the following related disciplines

BIO 11*, 12*, 15*, 45*, 112*, 113, 201
CHEM 1A*, 108
EMT 205* & 205L*, 210*, 219*
GERO 101, 110, 115, 120
HLTH 1, 2, 3
HSC 102*, 217*, 201, 222, 223*, 226*, 227*, 228, 229, 241, 291
INSR 214A, 215A, 260
MA 210, 211A/B, 212A/B, 213A/B, 214B, 217A*/B*/C*, 218B
N 160*, 161, 162*, 170*, 171*, 172*, 173*, 174*, 176*, 202*, 238*, 244*, 245*, 263, 264*, 265*, 289*
PHLB 240*
PM 220*, 230*, 240*

Total 18

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

History Associate Degree Program

The curriculum in the History Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
HIST 4	World History to 1750	3
HIST 5	World History from 1750	3
HIST 16	History of the United States to 1876	3
HIST 17	History of United States Since 1876	3
	Select from Restricted Electives	6
	Total	**18**

Restricted Electives:

ECON 2, 20; HIST 7, 8, 9, 10, 12, 15, 19, 20, 21, 25, 30, 32, 33, 40, 41, 61, 62, 63, 70, 71, 72, 75, 80, 135; PS 4, 11, 12, 14, 61, 75, 80; HIST 20/SOC 20.

Associate Degree.

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

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.

Course ID	*Title*	*Units*
HORT 10	Plant Materials: Herbaceous Plants	3
HORT 11	Plant Materials: Trees and Shrubs	3
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
HORT 116	Irrigation Systems	3
	Select one course from each Group	7-11
	Total	**22-26**
Group I:		
HORT 20	Introduction to Horticulture Science	4
HORT 115	History of Landscape Design	3
Group II:		
HORT 7	Introduction to Landscape Design	3
HORT 120	Integrated Pest Management	4
Group III:		
CWE 180*181*	Cooperative Work Experience: Horticulture	1
HORT 29	Ornamental Native Plants	3
HORT 160	Native Ornamental Plants/Morro Bay	1
HORT 161	Horticulture Field Studies: Grand Canyon and Adjacent Areas	1.5
HORT 162	Horticulture Field Studies: Yosemite National Park	1.5
HORT 163	Horticulture Field Studies: Sequoia National Park	1.5
HORT 164	Horticulture Field Studies: Zion National Park	1.5
HORT 165	Horticulture Field Studies: National Parks of the Southwest	2.5

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

†CWE 180* should be taken after completing at least 9 units of the Horticulture Certificate.

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 1, 120, 137; CIM 1A; HORT 208, 209; SPAN 1*.

General Horticulture Occupational Skills Award

General Horticulture encourages students to master skills required to propagate and maintain healthy plants, including the use of soils and fertilizers.

Course ID	*Title*	*Units*
HORT 20	Introduction to Horticultural Science	4
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
	Total	**10**

Plant Identification Occupational Skills Award

Plant Identification encourages students to master skills required to identify all of the important annuals, groundcovers, vines, trees, shrubs, and native plants used in Southern California landscapes. Award holders will be able to make recommendations for the incorporation of these species into the landscape based on flower color, time of flowering, height, spread, fruit production, and known problems.

Course ID	*Title*	*Units*
HORT 10	Plant Materials—Herbaceous Plants	3
HORT 11	Plant Materials—Trees and Shrubs	3
HORT 29	Ornamental Native Plants	3
	Total	**9**

Human Development Associate Degree Program

The curriculum in the Human Development Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
ANTH 2	Cultural Anthropology	3
CD7*/PSYC 7*	Child Growth and Development	3
CD 15*/SOC 15*	Child, Family, and Community	3
MATH 10*	Introduction to Statistics	3
PSYC 1	Introduction to Psychology	3
SOC 1	Introduction to Sociology	3
	Total	**18**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BIO 20; CD 120*, 121.

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. They 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 experiential learning in the field work settings.

Course ID	*Title*	*Units*
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3.5
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 150*	Field Instruction and Seminar II	3.5
HS 170	Alcohol and Other Drugs in our Society	3
HS 171	Substance Abuse: Intervention, Treatment, and Recovery	3
HS 172*	Physiological Effects and Pharmacology of Alcohol and Drugs	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 175	Substance Abuse Education, Prevention, and Intervention	3
	Select from Restricted Electives	6
	Total	**37**

Restricted Electives:

HS 131	Multicultural and Diverse Populations in the United States	3
HS 176*	Co-occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 182*	Substance Abuse Treatment in Children and Adolescence	
HS 285	Ethical Issues/Clients' Rights	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Corrections and Criminal Justice Certificate Program

The program in Corrections and Criminal Justice provides the student with an introduction to the Human Services behavioral core and skills with a specialized area of study in criminal justice. Students completing the program may find employment in probation, juvenile counseling settings, California Youth Authority, and half-way houses.

Course ID	*Title*	*Units*
HS 37	Introduction to Criminology	3
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3.5
HS 119	Introduction to the Criminal Justice System	3
HS 120	Human Development in the Social Environment	3
HS 128	Community-Based Corrections	3
HS 150*	Field Instruction and Seminar II	3.5
HS 170	Alcohol and Other Drugs in our Society	3
HS 187	Juvenile Violence, Gangs, and Victimization	3
	Select from Restricted Electives	3
	Total	**31**

Restricted Electives:

HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 285	Ethical Issues/Clients' Rights	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

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.

Course ID	*Title*	*Units*
FN 50	Fundamentals of Nutrition	
or		*3*
FN 160	Nutrition, Weight Management, and Eating Disorders	
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3.5
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 150*	Field Instruction and Seminar II	3.5
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 181	Introduction to Eating Disorders	3
HS 184*	Medical Aspects of Eating Disorders	3
HS 185*	Background and Treatment of Eating Disorders	3
HS 285	Ethical Issues/ Clients' Rights	3
	Total	**37**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer 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.

Course ID	*Title*	*Units*
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3.5
HS 120	Human Development in the Social Environment	3
HS 150*	Field Instruction and Seminar II	3.5
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 175	Substance Abuse Education, Prevention, and Intervention	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 182*	Substance Abuse Treatment in Children and Adolescence	3
HS 285	Ethical Issues and Clients' Rights	3
	Total	**28**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer 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.

Course ID	*Title*	*Units*
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3.5
HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Population in the United States	3
HS 140	Group Leadership and Group Process	3
HS 150*	Field Instruction and Seminar II	3.5
HS 175	Substance Abuse Education, Prevention, and Intervention	3
HS 177	Family Dynamics of Addiction and Abuse	3
	Select from Restricted Electives	3
	Total	**28**

Restricted Electives:

APSY 150, 160; HS 170, 171, 172, 174, 176; PSYC 106*; SOC 1, 2, 10, 20; WS 100, 135.

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Mentor and Prevention Assistance Specialist Certificate Program

This certificate program is designed to provide the knowledge and skills for persons who desire to work as mentor coordinators, mentor volunteers, or prevention specialists. Those who complete this program may work or volunteer in K-12 schools, alternative schools, court mentor mediators, probation or other correctional facilities, and for cities or other community agencies.

Course ID	*Title*	*Units*
APSY 150	Helping Relationships	3
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3.5
HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Population in the United States	3
or		
HS 176*	Co-occurring Disorders	3
HS 140	Group Leadership and Group Process	3
HS 150*	Field Instruction and Seminar II	3.5
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 175	Substance Abuse Education, Prevention, and Intervention	3
or		
HS 182*	Substance Abuse Treatment in Children and Adolescence	3
	Total	**28**

*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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Pending State Approval

Mental Health Certificate Program

The Human Service department has designed the Mental Health Worker program to educate students to understand cultural competency, skills needed for clients and family members to enter the public mental health labor force, benefits acquisitions, the recovery model, co-occurring disorders and integrated services, early identification of mental illness and evidence-based practices.

Course ID	*Title*	*Units*
HS 100	Human Services in a Changing Society	3
HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Populations in the United States	3
HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 285	Ethical Issues/Clients' Rights	3
HS 220*	Benefits and Entitlement	3
CWE 180*	Cooperative Work Experience: Mental Health	1.5
	Total	**28.5**

*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 qualify the student for an Associate in Science degree. A minimum of 12 units must be taken at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer 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.

Course ID	*Title*	*Units*
HS 100	Human Services in a Changing Society	3
HS 110*	Field Instruction and Seminar I	3.5
HS 119	Introduction to the Criminal Justice System	3
HS 120	Human Development in the Social Environment	3
or		
HS 177	Family Dynamics of Addiction and Abuse	3
HS 128	Community-Based Corrections	3
HS 150*	Field Instruction and Seminar II	3.5
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues/Clients' Rights	3
	Select from Restricted Elective	3
	Total	**28**

Restricted Electives:

HS 131	Multicultural and Diverse Population in the United States	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-occurring Disorders	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Humanities Associate Degree Program

The curriculum in the Humanities Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors in the humanities such as language, history, literature or philosophy, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment.

A minimum of 18 units from the following:

Course ID	*Title*	*Units*
International Language level 3 or 4		5
HIST 4	World History to 1750	3
HIST 5	World History from 1750	3
HUM 1*	Introduction to Humanities	3
HUM 3*	The Culture of Medieval and Renaissance Europe	3
HUM 10A*	Culture, Science, and Society I	3
HUM 10B*	Culture, Science, and Society II	3
HUM 21*/IDS 1*	The Search for Meaning: Ideas of Self Across Cultures	3
HUM 22*/IDS 2*	Gods, Clocks, and Visions	3
HUM 25*/IDS 5*	Planet Earth: Contemporary Issues and Controversies	3
PHIL 1*	Introduction to Philosophy	3

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Interior Design

Saddleback College offers an interdisciplinary Interior Design curriculum partnership in conjunction with two other Southern California community colleges: Fullerton 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.

Course ID	*Title*	*Units*
BUS 137	Professional Selling Fundamentals	3
ID 110	Fundamentals of Interior Design	3
ID 111*	Interior Design Studio I	2
ID 112	Beginning Drafting for Interiors	3
ID 113	Interior Design Careers	2
ID 114	Applied Color and Design Theory for Interior Design	4
ID 115*	Computer-Aided Design/Drafting for Interior Design	3
ID 116	Interior Materials and Products	4
	Total	**24**

Associate Degree will be awarded for Level III only.

Level II - Interior Design Assistant Certificate Program

The Interior Design Assistant level meets the standards that can lead to a minimum preparation for design certification and employment as a design assistant.

Course ID	Title	Units
Level I Courses		**24**
ARCH 124A	Architectural Drawing I	4
ID 121*	Space Planning	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 123*	Interior Design Illustration	2
ID 125	History of Interior Architecture and Furnishings II	3
ID 126*	Interior Design Studio II	2
ID 127*	Fundamentals of Lighting	3
ID 128*	Business and Professional Practice for Interior Design	3
ID 129*	Interior Design Internship	1
and		
CWE 180*	Cooperative Work Experience: Interior Design	1
	Total	**49**

Associate Degree will be awarded for Level III only.

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.

Course ID	Title	Units
Level I and II Courses		**49**
BUS 160	Small Business Management	3
ID 133*	Rendering and Rapid Visualization for Interior Design	2
ID 210*	Interior Design Studio III	2
ID 211	Codes and Specifications for Interior Design	2
ID 212*	Advanced Computer-Aided Design/Drafting for Interior Design	3
ID 213*	Interior Design Studio IV	2
	Total	**63**

*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 Level III as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

International Language Associate Degree Program

The curricula in Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Persian, and Spanish are designed to provide the transfer student the opportunity to achieve the Associate Degree. While a baccalaureate or higher is recommended for those considering foreign languages, earning the Associate Degree may support attempts to gain entry-level employment or promotion. Sign Language courses can be applied to Saddleback College's American Sign Language Interpreting Certificate Program.

Associate Degree

Associate in Arts Degree

Complete at least 23 units as follows: 20 units in one language including Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Persian, or Spanish (courses numbered 1*, 2*, 3*, 4*) and 3 units from any other language course including culture or conversation courses (courses numbered 10* or 21*) , 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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Journalism Certificate Program

The curriculum in the Journalism Certificate provides 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.

This program provides background and experience needed by persons who may be employed as editors, staff writers, editorial and staff reporters, and photographers.

Course ID	Title	Units
JRN 1/CA 1	Mass Media and Society	3
JRN 2*	News Writing	3
JRN 105	Feature Writing	3
JRN 120*†	Newspaper Publication	4-4
JRN 125*†	Magazine Journalism	3-3
	Total	**23**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: CIM 228A, 228B; PHOT 50, 55.

Kinesiology Associate Degree Program

The curriculum in the Kinesiology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Course ID	Title	Units
HLTH 1	Contemporary Health Issues	
or		*3*
HLTH 3	Women's Health Issues	
HLTH 2	Responding to Emergencies/First Aid and CPR	1.5
KNES 51	Introduction to Kinesiology and Athletics	3
KNES 52	Fundamentals of Human Movement	3
	and	
	A minimum of 3 units in Training and Theory selected from the following: KNES 53, 54*,105	3
	and	
	A minimum of 6 units in Kinesiology 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: Intercollegiate Athletics may be applied in appropriate areas.	6
	Total	**19.5**

Associate Degree

Associate in Arts Degree

Complete units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BIO 11*, 20; KNES 107; PSYC 1; SP 1 or 5.

Landscape Design Certificate Program

This program is designed to train students for careers in landscape design and maintenance with municipal and county parks departments, industrial and commercial firms, and residential construction companies.

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials: Herbaceous Plants	3
HORT 11	Plant Materials: Trees and Shrubs	3
HORT 106	Landscape CADD	3
HORT 109	Introduction to Planting Design	3
HORT 116	Irrigation Systems	3
HORT 130	Hardscape and Construction Materials	3
	Select from Restricted Electives	1-3
	Total	**22-24**

Restricted Electives:

CWE 180*†	Cooperative Work Experience: Horticulture	1
HORT 29	Ornamental Native Plants	3
HORT 160	Native Ornamental Plants/Morro Bay	1
HORT 161	Horticulture Field Studies: Grand Canyon and Adjacent Areas	1.5
HORT 162	Horticulture Field Studies: Yosemite National Park	1.5
HORT 163	Horticulture Field Studies: Sequoia National Park	1.5
HORT 164	Horticulture Field Studies: Zion National Park	1.5
HORT 165	Horticulture Field Studies: National Parks of the Southwest	2.5

†CWE 180* should be taken after completing at least 9 units of the Landscape Design Certificate 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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 215; BUS 1, 120, 137; CIM 1A; HORT 113, 115; SPAN 1*.

General Landscape Design Occupational Skills Award

A comprehensive overview of the drawing, design, and construction materials used by the landscape designer. The skills acquired will enhance the ability to provide landscaping assistance to customers of retail and wholesale nurseries.

Course ID	Title	Units
HORT 7	Introduction Landscape Design	3
HORT 109	Planting Design	3
HORT 130	Hardscape and Construction Materials	3
	Total	**9**

Liberal Studies Associate Degree

The curriculum in the Liberal Studies Associate Degree program is designed for students transferring to a four-year college or university intending to pursue a multiple subject teaching credential.

The Associate Degree in Liberal Studies requires completion of a minimum of 18 units as described below and either the CSU General Education (CSU-GE) certification requirements (a minimum 39 units) or the Intersegmental General Education Transfer Curriculum (IGETC) (a minimum 34 units). The selections below are derived from articulation agreements from local California State Universities.

Please consult with a counselor to ensure that the courses you select from the options listed below are appropriate for your particular school of transfer.

Complete 18 units as described below:	
ENG 1A*	3
SP 1 or 5	3
PS 1	3
Select one of the following:	
ENG 1B*, 170, PHIL 12*, SP 2*, 3*	3
Select one of the following:	
HIST 7, 8, 16,17, 22	3
Select one of the following:	
MATH 2*, 3A*, 3B*, 3C* 7*, 8*, 9*, 10*, 11*, 24*, 26*, 124*	3

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

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Marine Science Technology

The Marine Science Technology program is designed to provide technician training for several ocean-related careers. Two program options are outlined below to orient students to the different emphases necessary for individual interest and career goals.

Marine Science Technician Certificate Program

Rapid growth of the field of marine environmental management in Southern California brings demand for marine science technicians having the practical seamanship skills of navigation, vessel operation, marine systems and equipment maintenance, as well as scientific expertise. Flexibility in study areas of concentration allows for tailoring coursework to specific employment opportunities.

Classroom work in oceanographic disciplines is combined with seagoing laboratory experience aboard marine research vessels, both sail and power. The program is designed to develop a solid educational foundation so that graduates will be prepared to work closely with scientists, researchers, engineers, and marine survey and operations personnel as they endeavor to manage this enormous resource for the good of mankind.

Course ID	*Title*	*Units*
ENV 18	Intro to Ecology	
or		*4*
ENV 19*/BIO 19*	Marine Biology	
or		
MS 4	Southern California Coastal Ecology	
MS 20	Introduction to Oceanography	4
	Select from Restricted Electives	15
	Total	**23**

Restricted Electives:

MST 100	Aquarium Systems	3
and		
MST 101*	Aquarium Management	1.5
MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 205	Water Quality and Toxicity of Captive Aquatic Systems	3
MST 210	Coastal Navigation	3
MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 217	Sub Sea Technology: Remotely Operated Vehicle	2
MST 218*	Electronic Aids to Navigation	3
MST 219*	Marine Ecological Survey/GIS	3
MST 289	Special Topics	1

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: CHEM 1A*, 106*; CIM 1A; DR 100; ET 102, 104*; PHYS 2A*.

Seamanship Certificate Program

This program is designed to prepare individuals as boat operators and to take Coast Guard licensing examinations, as well as train marine technicians in the seagoing disciplines. Fieldwork is conducted throughout Southern California and the Channel Islands from Dana Point and Newport harbors. Boats include 28 to 48-foot sailing and power vessels, as well as safety sail training and introductory boating experience on Saddleback's fleet of 14-foot Capri sailboats.

Course ID	*Title*	*Units*
MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 210	Coastal Navigation	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
	Select from Restricted Electives	9
	Total	**23**

Restricted Electives:

MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 217	Sub Sea Technology: Remotely Operated Vehicle	2
MST 218*	Electronic Aids to Navigation	3
MST 219*	Marine Ecological Survey/GIS	3
MST 224	Channel Islands	1.5

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ET 101, 102; DR 100, PHYS 2A*.

Mathematics Associate Degree Program

The curriculum in the Mathematics Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
First Year		
CS 1B*	Introduction to Programming	
or		*3*
CS 4A*	Introduction to Java for Computer Science	
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
Second Year		
MATH 3C*	Analytic Geometry and Calculus	5
MATH 24*	Elementary Differential Equations	4
MATH 26*	Introduction to Linear Algebra	4
	Total	**26**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

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. 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 necessary to enter the workforce. Students are required to carry malpractice insurance while in MA 217A*.

Course ID	*Title*	*Units*
HSC 201	Medical Terminology	3
HSC 222	Basic Life Support/CPR for Healthcare Providers	.75
INSR 214A	Basics in Medical Insurance	2.5
INSR 215A	CPT-4 and ICD-9-CM Medical Insurance Coding	3
INSR 260	Computer Applications for Healthcare Personnel	1.5
MA 210	Introduction to Medical or Laboratory Assisting	2
MA 211A	Medical Reception Techniques	2.5
MA 212A	Medical Office Financial Procedures	2.5
MA 213A	Medical Records Management	2.5
MA 217A*	Medical Assisting Clinical Experience Administrative	3
	Total	**23.25**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: PHLB 240*; MA 211B, 212B, 213B, 214B, 218B.

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*.

Course ID	*Title*	*Units*
HSC 201	Medical Terminology	3
HSC 222	Basic Life Support/CPR for Healthcare Providers	.75
INSR 260	Computer Applications for Healthcare Personnel	1.5
MA 210	Introduction to Medical or Laboratory Assisting	2
MA 211B	Physical Examination Procedures	3
MA 212B	Medical Office Laboratory Procedures	3
MA 213B	Medical Asepsis and Surgical Procedures	3
MA 214B	Medication Administration for Medical Assistants	3
MA 217B*	Medical Assisting Clinical Experience—Clinical	3
MA 218B	Electrocardiography for the Medical Assistant	2
	Total	**24.25**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: PHLB 240*; INSR 214A, 215A ; | MA 211A, 212A, 213A.

Comprehensive 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*.

Course ID	*Title*	*Units*
HSC 201	Medical Terminology	3
HSC 222	Basic Life Support/CPR for Healthcare Providers	.75
INSR 214A	Basics in Medical Insurance	2.5
INSR 215A	CPT-4 and ICD-9-CM Medical Insurance Coding	3
INSR 260	Computer Applications for Healthcare Personnel	1.5
MA 210	Introduction to Medical or Laboratory Assisting	2
MA 211A	Medical Reception Techniques	2.5
MA 211B	Physical Examination Procedures	3
MA 212A	Medical Office Financial Procedures	2.5
MA 212B	Medical Office Laboratory Procedures	3
MA 213A	Medical Records Management	2.5
MA 213B	Medical Asepsis and Surgical Procedures	3
MA 214B	Medication Administration for Medical Assistants	3
MA 217C*	Medical Assisting Clinical Experience—Comprehensive	3
MA 218B	Electrocardiography for the Medical Assistant	2
	Total	**37.25**

*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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: PHLB 240*.

Medical Insurance Coding Occupational Skills Award

Completion of the occupational skills award in Medical Insurance Coding prepares the student for employment in a medical office or as an independent consultant/contractor who specializes in medical insurance billing and coding.

Course ID	*Title*	*Units*
HSC 201	Medical Terminology	3
INSR 214A	Basics in Medical Insurance	2
INSR 215A	CPT-4 and ICD-9-CM Medical Insurance Coding	3
INSR 260	Computer Applications for Healthcare Personnel	1.5
	Total	**9.5**

Pending State Approval

Medical Lab Technician Certificate Program

The Medical Laboratory Technician program prepares students for employment as an MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector.

The MLT program is a two-year curriculum leading to the Associates in Science degree in Medical Laboratory Technician. Completion of prerequisite courses will be required prior to entering the program. The program course of study is a combination of instruction in principles of laboratory theory and techniques as well as clinical experience at affiliated medical laboratories. Students learn to perform routine laboratory procedures in phlebotomy, microbiology, clinical chemistry, hematology, coagulation, immunology, and urinalysis. They also will learn to operate and maintain clinical laboratory equipment.

Graduates of the program qualify for national certification examinations sponsored by the American Society of Clinical Pathologists (ASCP) Board of Registry or by the American Association of Bioanalysts (ABB) Board of Registry to become state licensed medical laboratory technicians.

Required pre-requisites prior to Medical Lab Technician Sequence:

Course ID	*Title*	*Units*
BIO 15*	General Microbiology	5
BIO 113	Human Anatomy and Physiology	4
CHEM 108	Introduction to General, Organic, and Biochemistry	4
MLT 210	Introduction to the Clinical Lab Profession	1
MLT 211*	Clinical Lab Calculations	1
PHLB 240* and CWE 180*	Phlebotomy / Cooperative Work Experience: Phlebotomy	4 / 2
	Total	**21**

Course ID	Title	Units
MLT 231*	Clinical Chemistry I	3
MLT 232*	Clinical Microbiology	3
MLT 233*	Clinical Hematology	3
MLT 234*	Clinical Coagulation	1
MLT 235*	Clinical Urinalysis	1
MLT 241*	Clinical Chemistry II	3
MLT 242*	Clinical Chemistry Practicum	3
MLT 243*	Clinical Immunology	3
MLT 244*	Clinical Hematology, Coagulation, Urinalysis Practicum	3
MLT 252*	Clinical Microbiology Practicum	3
MLT 253*	Clinical Immunology Practicum	3
	Total	**32**
General Education courses:		
	Math Competency-MATH 253*/205*	3-5
	Fine Arts/ Humanities	3
	Oral Communication	3
	Social / Behavioral	3
	Written Communication-ENG 1A*	3
	Life Skills/ Critical Thinking	1.5
	Physical Fitness Assessment	1
	Total	**67.5-69.5**

*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.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Music Associate Degree Program

The curriculum in Music is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree will demonstrate commitment to the major, and attainment of a degree which can support attempts to gain entry-level employment.

The following course of study must be completed to fulfill major requirements for the Associate Degree in Music:

Course ID	*Title*	*Units*
MUS 50* *or* MUS 51* *or* MUS 52*	Applied Music: Instrumental / Applied Music: Keyboard / Applied Music: Voice	2.5, 2.5 / 2.5, 2.5 / 2.5, 2.5
	Select from: MUS 31*, 32*, 33*, 34*, 35*, 40*, 41*,42*, 47*, 62*, 63, 64*, 66*, 75*, 148 or 297*	3-6
MUS 10*	Harmony I	3
MUS 11*	Harmony II	3
MUS 54	Beginning Piano (or proficiency exam)	(1)
MUS 55*	Intermediate Piano (or proficiency exam)	(1)
MUS 92*	Musicianship I	2
MUS 93*	Musicianship II	2
	Select two courses from: MUS 20, 23, 24, 25, 26, 27, 28, 29	6
	Total	**24-29**

*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 the required courses 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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Natural Sciences Associate Degree Programs

(SEE ASTRONOMY, BIOLOGY, CHEMISTRY, GEOLOGY, PHYSICAL SCIENCE, and PHYSICS)

Accredited National League for Nursing Accrediting Commission (NLNAC)

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

Procedures for applying to the Nursing program and application packets are available in the Health Sciences and Human Services division office and on the division website. Prospective nursing students are encouraged to attend an RN Information Session. (See schedule of classes)

In order to apply, a student must complete BIO 11* (Anatomy), BIO 12* (Physiology). BIO 15* (Microbiology), and ENG 1A* (Principles of Composition 1) or their equivalents with a grade of "C" or better. BIO 12* (Physiology) must have been completed within the past seven years.

Students must also have a qualifying GPA of 2.5 to apply. Applications will be taken each semester. The application period for the spring semester is June 15-30, and the application period for the fall semester is February 11-28.

Students qualified for application will be ranked according to academic score received for prerequisite biologies and overall GPA from most recent transcript with 12 or more units.

Three-fourths of the students will be admitted from the highest academic to the lowest academic ranking in the applicant pool. Ties will be decided by the number of required core nursing courses completed. One-fourth of the qualified applicants will be selected by lottery.

The Nursing Program at Saddleback College is an impacted program, therefore students who hold F-1 (student visas) will not be considered for admission to the Nursing Program.

Students may use the following resources to obtain information or to seek clarification regarding nursing issues:

California Board of Registered Nursing
P. O. Box 944210
Sacramento, CA 94244
916-322-3350

National League for Nursing Accrediting Commission, Inc.
3343 Peachtree Road, NE, Suite 500
Atlanta, Georgia 30326
800-669-1656

Accredited National League for Nursing Accrediting Commission (NLNAC)

Registered Nurse Certificate Program

Every required prerequisite and core class must be completed with a "C" or better.

Course ID	*Title*	*Units*
Required pre-requisites prior to Nursing Clinical Sequence:		
BIO 11*	Human Anatomy	4
BIO 12*	Human Physiology	4
BIO 15*	General Microbiology	5
ENG 1A*	Principles of Composition I	3
	Total	**16**

Eligible for Entry into Nursing Clinical Sequence

Semester I		
GERO 101	Fundamentals of Aging	1.5
N 160*	Pharmacology	2.5
N 170*#	Nursing Process	7.75
N 171*#	Mental Health Nursing	3
	Total	**14.75**
Semester II		
N 161	Growth and Development	1.5
N 172*#	Medical-Surgical Nursing	8.75
PSYC 1	Introduction to Psychology	3
	Total	**13.25**
Semester III		
N 173*†#	Nursing Care of Children and Families	3.5
N 174*#	Women's Health Nursing	3.5
	Total	**7**
Semester IV		
N 176*#	Advanced Nursing	8
SP 1	Communication Fundamentals	
or		3
SP 5	Interpersonal Communication	
	Total	**11**

Total units Registered Nursing Certificate 62

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

#Clinical course.

Selected clinical experiences in various hospitals, clinics, and community agencies are provided throughout the Nursing Program.

Upon completion of the Registered Nurse Certificate Students are eligible for RN Licensure Exam

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. Students are admitted from a wait list.

Admission of LVNs 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, and ENG 1A* or equivalent, with a grade of "C" or better.
3. Completion of N 162* with a grade of "C" or better within a maximum of 3 semesters of program entry.
4. Completion of matriculation testing.
5. Attendance at "LVN to RN" guidance session.
6. Overall GPA of 2.5 in prerequisite courses.
7. Application submitted with Director/Assistant Director of Nursing.
8. Completion of standardized Assessment Technology Institute (ATI) tests at or above designated cut scores.
9. Proof of completion of a minimum of one (1) year of direct patient care.

Consideration will be given to each applicant's prior education in determining placement into the program. All classes are challangeable. Every required prerequisite and core class must be completed with a "C" or better.

Required Prerequisites:

Course ID	*Title*	*Units*
BIO 11*	Human Anatomy	4
BIO 12*	Human Physiology	4
BIO 15*	General Microbiology	5
ENG 1A*	Principles of Composition I	3
N 162*	Successful Transition to Professional Nursing	1.5
	Total	**17.5**

Required Core Classes:

Course ID	*Title*	*Units*
GERO 101	Fundamentals of Aging	1.5
N 171*#	Mental Health Nursing	3
N 173*#	Nursing Care of Children and Families	3.5
N 174*#	Women's Health Nursing	3.5
N 176*#	Advanced Nursing	8

PSYC 1	Introduction to Psychology	3
SP 1	Communication Fundamentals	
or		*3*
SP 5	Interpersonal Communication	
	Total	**25.5**

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

#Clinical course.

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 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 BIO 12*, BIO 15*, and N 162* with grades of "C" or better and with a GPA of 2.5 or greater.
3. Attendance at "LVN to RN" guidance session.
4. Completion of N 162* with a grade of "C or better within a maximum of 3 semester of program entry.
5. Applicant must commit, in writing, to the 30-unit status prior to or during application.
6. Application submitted with the Director/Assistant Director of Nursing.
7. Completion of standardized Assessment Technology Institute (ATI) tests at or above designated cut scores.
8. Proof of completion of a mini8mum of one (1) year of direct patient care as an LVN.

Consideration will be given to each applicant's prior education in determining placement into the program. All classes are challengeable. Every required prerequisite and core class must be completed with a "C" or better.

Courses Required for the 30-Unit Option:

Required Prerequisites:

Course ID	*Title*	*Units*
BIO 12*	Human Physiology	4
BIO 15*	General Microbiology	5
N 162*	Successful Transition to Professional Nursing	1.5
Required Core Classes:		
GERO 101	Fundamentals of Aging	1.5
N 171*	Mental Health Nursing	3
N 173*#	Nursing Care of Children and Families	3.5
N 174*#	Women's Health Nursing	3.5
N 176*#¥	Advanced Nursing	8
	Total	**30**

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

#Clinical course.

¥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	*Title*	*Units*
ENG 1A*†	Principles of Composition I	3
GERO 101†	Fundamentals of Aging	1
PSYC 1	Introduction to Psychology	3
SOC 1	Introduction to Sociology	3
SP 1	Communication Fundamentals	
or		*3*
SP 5	Interpersonal Communication	
	Total	**13**

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

†A minimum grade of "C" is required.

Refer to Graduation Requirements for specific information regarding unit, scholarship, residence, and general education requirements.

The state universities in the area have planned curricula to dovetail with the community college programs in Orange County; therefore, it will be possible in most instances to make a smooth articulation to a baccalaureate program in Nursing.

The student will need to meet admission requirements as determined by the particular baccalaureate program he/she wishes to enter. These requirements may include courses in the natural sciences or other areas. Students should seek the necessary counseling before taking general education courses at Saddleback College as some additional courses may need to be included.

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 preschool and elementary school), 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 Saddleback College Catalog, as well as the catalog of the intended college of transfer.

Please see a counselor for assistance in planning a transfer program.

Course ID	*Title*	*Units*
FCS 115	Consumer Issues	
or		*3*
FCS 142	Life Management	
CWE 180*†	Cooperative Work Experience: Foods and Nutrition	2
FN 50†	Fundamentals of Nutrition	3
FN 64	Nutrition Issues and Controversies	3
FN 110*	Food Preparation Essentials	3
FN 120*	Contemporary Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3
FN 164	Sports Nutrition	2
or		
FN 171	Sanitation and Safety	2
or		
FN 210	Servsafe in Food Production	1
FN 230*	Vegetarian Foods	
or		*2*
FN 232*	Lite Cuisine Strategies	
	Total	**23-24**

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

† Foods and Nutrition 50 recommended prior to CWE 180*.

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 125, 137; 134; FN 140*, 171, 252; HLTH 1; KNES 107; PSYC 33, 106; SP 1.

Oceanography Associate Degree Program

The curriculum in the Oceanography Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors such as marine biology, environmental science or geological sciences, the Associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
First Year		
CHEM 1A*	General Chemistry	5
CHEM 1B*	General Chemistry	5
GEOL 1	Introduction to Physical Geology	4
MATH 3A*	Analytic Geometry and Calculus	5
MS 20	Introduction to Oceanography	4
Second Year		
MATH 3B*	Analytic Geometry and Calculus	5
MATH 3C*	Analytic Geometry and Calculus	5
MATH 10*	Introduction to Statistics	3
PHYS 4A*	General Physics	5
PHYS 4B*	General Physics	5
	Total	**46**

*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 at least 18 units in the major including MS 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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BIO 3A* or 20, 19; GEOL 2*, 5*, 6*, 7, 20; PHYS 4C*.

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*.

Course ID	*Title*	*Units*
PM 220*†	Paramedicine Theory	14
PM 230*†	Paramedic Clinical Experience	7.5

PM 240*†	Paramedic Field Internship	12
	Total	**33.5**

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

†A minimum grade of "B" is required.

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 or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: EMT 219*; HSC 217*, 226*.

Philosophy Associate Degree Program

The curriculum in the Philosophy Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the associate degree would support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
Required courses:		
PHIL 1*	Introduction to Philosophy	3
PHIL 10*	World Religions	3
PHIL 12*	Introduction to Logic	3
Select a minimum of 9 units from the following:		
ENG 15A*	Survey of American Literature: 1620-1860	3
ENG 15B*	Survey of American Literature: 1860-Contemporary	3
or		
ENG 17A*	Survey of English Literature: Beowulf to Romantic Movement	3
ENG 17B*	Survey of English Literature: Romantic Movement to the Present	3
or		
ENG 21A*	World Literature: Ancient to the 17th Century	3
ENG 21B*	World Literature: 17th Century to Modern	3
HIST 4	World History to 1750	3
HIST 5	World History from 1750	3
HUM 1*	Introduction to Humanities	3
PHIL 15*	Introduction to Ethics	3
	Total	**18**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer 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.

Phlebotomist/Laboratory Assistant Occupational Skills Award

This curriculum prepares the student for employment as a Phlebotomist/Laboratory Assistant in a hospital, laboratory, or clinic. The training is designed to prepare students to collect specimens, do venipunctures, and clean and maintain medical laboratory equipment. Enrollment in CWE 180* (two units) will provide the necessary 120 hours of clinical experience required to complete this program. Successful completion of PHLB 240* and CWE 180* will lead to certification as a Phlebotomist/Laboratory Assistant.

Course ID	*Title*	*Units*
PHLB 240*	Phlebotomist/Laboratory Assistant Procedures	4
CWE 180*	Cooperative Work Experience: Phlebotomist	2
	Total	**6**

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

Photography Associate Degree Program

The curriculum in the Photography Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
First Year		
ART 40	Two-Dimensional Design	3
PHOT 50	Introduction to Photography	3
PHOT 51*	Introduction to Photoshop and Digital Imaging	3
PHOT 55*	Intermediate Photography	3
Second Year		
PHOT 152*	Intermediate Photoshop and Digital Imaging	3
or		
PHOT 189*	Special Topics: Photography	3
or		
PHOT 190	Special Problems in Photography	3
PHOT 156*	Advanced Photography	3
PHOT 160*	Color Digital Photography	3
	Total	**21**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ART 80, 189; JRN 1/CA 1.

Physical Education Associate Degree Program

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Physical Science Associate Degree

The associate degree in Physical Science may be appropriate for transfer students who are planning to major in one of the physical sciences such as astronomy, biochemistry, chemistry, environmental sciences, geological sciences, or physics or a preprofessional program requiring completion of physical science courses such as prechiropractic, predental, premedicine, preoptometery, and prepharmacy.

Students planning to transfer to California State University (CSU), the University of California (UC) or an institution which accepts certification should complete general education requirements for the associate degree by completing CSU General Education (CSU-GE) certification requirements or the Intersegmental General Education Transfer Curriculum (IGETC) (34-39 units).

Please consult with a counselor for assistance in selecting courses appropriate for transfer majors and/or preprofessional programs.

Select 18 units from the following courses:

ASTR 20, 21, 25*, 45*, 130*
CHEM 1A*, 1B*, 3*, 12A*, 12B*, 108, 120
ENV 23, 25, 30, 105*, 106, 120
GEOG 1, 1L*, 2, 3, 38, 102, 110*
GEOL 1, 2*, 3, 4, 5*, 6*, 7, 10, 20, 21, 23, 162
MATH 3A*, 3B*
MS 4, 20
PHYS 2A*, 2B*, 4A*, 4B*, 4C*, 20

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Physics Associate Degree Program

The curriculum in the Physics Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering majors in engineering, biological sciences, or physics, earning the associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
First Year		
CS 1A	Introduction to Computer Science	3
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
Second Year		
MATH 3C*	Analytic Geometry and Calculus	5
MATH 24*	Elementary Differential Equations	4
MATH 26*	Introduction to Linear Algebra	4
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
	Total	**41**

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

Associate Degree

Associate in Science Degree

Completion of all the courses listed 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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: CHEM 1A*, 1B*.

Political Science Associate Degree Program

The curriculum in the Political Science Associate Degree program is designed to provide the transfer student the opportunity to achieve an associate degree. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the associate degree may support attempts to gain entry-level employment in public administration or social services.

It is recommended that PS 1 be taken prior to or concurrently with a combination of courses to be selected from those listed below.

Course ID	*Title*	*Units*
PS 1	American Government	3
PS 4	Introduction to Political Science	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
	Select from Restricted Electives	6
	Total	**18**

Restricted Electives:

ECON 2, 4*, 11; HIST 16, 17; MATH 10*, PS 10, 11, 61, 75, 80, SOC 1.

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Psychology Associate Degree Program

The curriculum in the Psychology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the associate degree may support attempts to gain entry-level employment or promotion.

Course ID	*Title*	*Units*
PSYC 1	Introduction to Psychology	3
PSYC 2*	Research Methods in Psychology	3
	Select from Restricted Electives	12
	Total	**18**

Restricted Electives:

ANTH 1, 2; BIO 3A*, 11*, 12*, 20; CHEM 1A*; MATH 9*, 10*; PHIL 1*; PSYC 3*, 5, 7, 21, 30, 33, 37*; SOC 1.

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Radio/Television/Film

See Cinema/Television/Radio

Rapid Digital Manufacturing Certificate Program

Rapid Digital Manufacturing addresses the competencies required by technical, engineering, and management professionals working in industry where products are designed and developed, with specific emphasis on mechanical/manufacturing, art/animation, medical imagery, geographic information systems, and architecture.

The program is designed to develop a solid educational foundation for graduates to work closely with engineers, designers, and professionals in multiple industries, using additive processes for product development, 3D visualization, art, entertainment, architecture, medical modeling, and geographic information systems.

Course ID	*Title*	*Units*
CIM 221	Managing Projects with Microsoft Project	3
DR 51*/ARCH 51*	Computer-Aided Drafting	3
DR 152*/ARCH 152*	Advanced Computer-Aided-Drafting	3
MFG 200*	Introduction to Rapid-Prototyping Technology	3
MFG 201*	Advanced CAD Model Making and Tooling	2
MFG 202*	Industrial Materials	2
MFG 203	Introduction to Manufacturing Processes	2
MFG 204*	3D Computer-aided Design - Solidworks	3
MFG 205	Silicone and Urethane Mold Making	3
MFG 206	Resin and Foam Casting	3
MFG 289	Special Topics	3-6
	Total	**30-33**

*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.

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, and 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 State Licensed Real Estate Property Appraiser.

REAL ESTATE APPRAISAL LICENSE and/or CERTIFICATE: Please contact the California Office of Real Estate Appraisers.

Course ID	*Title*	*Units*
RE 176A*	Real Estate Appraisal I	3
RE 176B	Real Estate Appraisal II	3
RE 178*	Real Estate Economics	3
RE 200	Uniform Standards of Professional Appraisal Practice (USPAP)	1.5
RE 222*	Real Estate Calculations	3
	Select from Specialty Courses	6
	Total	**19.5**

Specialty Courses:

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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: BUS 1, 135, 137.

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.

Course ID	*Title*	*Units*
CIM 120	Computer Literacy	1.5
CIM 121A	Keyboarding for Computers: Beginning	1.5
RE 170	Real Estate Principles	3
RE 172*	Real Estate Practice	3
RE 174*	Legal Aspects of Real Estate	3
RE 175*	Real Estate Finance	3
RE 190	Escrow	3
	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer 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 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, 172, and one additional elective must be completed before enrolling for the State exam. Electives list: ACCT 215, BUS 12, RE 122*, 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.

Course ID	*Title*	*Units*
RE 170	Real Estate Principles	3
RE 172*	Real Estate Practice	3
RE 174*	Legal Aspects of Real Estate	3
RE 175*	Real Estate Finance	3
RE 176A*	Real Estate Appraisal I	3
RE 178*	Real Estate Economics	3
	Select from Restricted Electives	9
	Select from Specialty Course	3
	Total	**30**

Restricted Electives:

RE 122*	Real Estate Office Administration	3
RE 176B	Real Estate Appraisal II	3
RE 190	Escrow	3
RE 195*	Property Management	3
RE 280	Mortgage Loan Brokering and Lending	3

Specialty Courses:

AMT 200	Apartment Maintenance Technology	2
BUS 137	Professional Selling Fundamentals	3
RE 202*	Computer Applications in Real Estate	3
RE 222*	Real Estate Calculations	3
RE 250*	Real Estate License Preparation	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

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 110*, 214; BUS 12, 110,120, 125, 135; CIM 121A; ECON 2, 4*; RE 176B, 195.

Social Sciences Associate Degree Program

The curriculum in the Social Sciences Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the associate degree may support attempts to gain entry-level employment or promotion.

Select twelve units within a single area of emphasis which include only courses applicable to the major as noted below.	12

Areas of Emphasis:

HIST 4, 5, 16, 17
ECON 2, 4*
GEOG 1, 2, 3
PS 1, 4, 12, 14
PSYC 1, 2, 3, 7, 30
SOC 1, 2, 15, 30

Select 6 additional units in a second area of emphasis as listed above	6
Total	**18**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

Sociology Associate Degree Program

The curriculum in the Sociology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers, earning the Associate degree may support attempts to gain entry-level employment in social services or a promotion.

Course ID	*Title*	*Units*
ANTH 2	Cultural Anthropology	3
MATH 10*	Introduction to Statistics	3
SOC 1	Introduction to Sociology	3
SOC 2	Social Problems	3
SOC 30*/PSYC 30*	Social Psychology	3
	Select from Restricted Electives	3
	Total	**18**

Restricted Electives:

SOC 10	Introduction to Marriage and the Family	3
SOC 15*	Child, Family, and Community	3
SOC 20	Ethnic Cultures of the United States	3
SOC 21	Women in Contemporary Society	3
SOC 25*	Social Stratification	3

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: CS 1A; GEOG 2; SOC 20/HIST 20, 81; SOC 4, 5, 10, 20, 25; PSYC 2*.

Speech/Communication Associate Degree Program

The curriculum in the Speech/Communication Associate Degree program is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate commitment to the major. Attainment of an Associate degree may support attempts to gain entry-level employment.

Course ID	*Title*	*Units*
SP 1	Communication Fundamentals (meets AA Speech requirements)	3
SP 3*	Argumentation and Debate	3
SP 5	Interpersonal Communication	3
SP 8	Gender Communication	3
SP 20/ANTH 20	Intercultural Communication	3
SP 30/TA 30	Introduction to Oral Interpretation	3
SP 32*/TA 32*	Interpreters' Theatre	3
	Total	**21**

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: SP 106.

Theatre Arts Performance and Acting Associate Degree Program

The curriculum in the Theatre Arts, Performing/Acting Associate Degree program is designed to provide the student the opportunity to achieve an Associate degree. A baccalaureate degree or higher is recommended for those considering professional career related to this field. An Associate Degree would demonstrate commitment to the major for those transferring to other institutes of higher learning and may support attempts to gain employment in the field.

Course ID	*Title*	*Units*
TA 1	Acting	3
TA 2*	Beginning Scene Study	3
TA 11	Stage Movement	3
TA 40	Stagecraft	4
TA 43	Stage Make-up	1
	Select from Appreciation and History	3
	Select from Rehearsal and Performance	.5-2
	Select from Acting	6
	Select from Restricted Electives	3
	Total	**27.5-29**

Appreciation and History:

TA 25	Theatre History: Primitive to Renaissance	3
TA 26	Theatre History: Renaissance to Contemporary	3

Rehearsal and Performance:

TA 15	Rehearsal and Performance: Drama	1-2
TA 16	Rehearsal and Performance: Comedy	1-2
TA 17	Rehearsal and Performance: Mixed Genres	1.2

TA 18	Rehearsal and Performance: Dance	1.2
TA 19	Rehearsal and Performance: Musical Theatre	1-2
TA 142	Theatre Production	.5 or 1

Acting

TA 3*	Advanced Scene Study	3
TA 4*	Acting Styles: Classical	
TA 5*	Acting Styles: Contemporary	3
TA 7*	Acting for Television and Film	3
TA 10	Musical Theatre Techniques	3

Restricted Electives:

TA 41*	State Lighting	3
TA 42	Costume Design	3
TA 45*	Scene Design	3
TA 101*	Fundamentals of Design and Graphics for Theatre	3
TA 102*	Stage Management	3

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

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: TA 12*, 20, 22, 30, 32*, 44*, 108, 110, 113, 130.

Theatre Arts Entertainment and Theatre Technology Associate Degree Program

The Entertainment and Theatre Technology program prepares students with the necessary skills to obtain entry level positions in the technical fields of the entertainment industries.

The Associate degree is designed to prepare students to transfer to a baccalaureate or higher degree program.

TA 240* is a non-transferable course required by the by the Theatre Arts Department for this degree.

Course ID	*Title*	*Units*
TA 1	Acting	3
TA 40	Stagecraft	4
TA 100*	Applied Technical Theatre Production	3
TA 142	Theatre Production	2
TA 240 *	Advanced Stagecraft	1-3
	Select from Appreciation & History	3
	Select from Restricted Electives	3-6
	Total	**19-24**

Appreciation and History:

TA 20	Theatre Appreciation	3
TA 25	Theatre History: Primitive to Renaissance	3
TA 26	Theatre History: Renaissance to Contemporary	3

Restricted Electives:

TA 102*	Stage Management	3
TA 41*	Stage Lighting	3
TA 42	Costume Design	3
TA 44*	Theatre Scenery Painting	2
TA 45*	Scene Design	3
TA 101*	Fundamentals of Design and Graphics for Theatre	3
TA 104	Costume Crafts	3
TA 130	Theatre Management	3

Associate Degree

Associate in Arts Degree

Complete 24 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Theatre Arts Entertainment and Theatre Technology Certificate Program

The Saddleback College Entertainment and Theatre Technology certificate program provides the student with a career preparation for entry-level positions in the professional entertainment industry. A comprehensive and intensive two-year program offers students the opportunity to explore fundamentals of a wide variety of practical career opportunities. Technical theatre students participate in the hands-on experience of creating all of the technical elements of Theatre Arts Department productions as well as other live events on the Saddleback College campus.

Course ID	*Title*	*Units*
TA 1	Acting	3
TA 20	Theatre Appreciation	3
TA 40	Stagecraft	4
TA 100*	Theatre Practicum and Lab 1	2, 2, 2
TA 101*	Fundamentals of Design and Graphics for Theatre	3
TA 103	Entertainment Internship	1
TA 142	Theatre Production	.5, .5, .5, 1
TA 240*	Advanced Stagecraft	3
	Select from Appreciation & History	3
	Select from Restricted Electives	4-7
	Total	**32.5-35.5**

Appreciation and History:

ART 20	Art Appreciation	3
CA 30	The History and Appreciation of Film	3
DANC 64	History of Dance	3
MUS 20	Music Appreciation	3
MUS 27	History Of Jazz	3
MUS 28	History of Rock	3
TA 22	Musical Theatre History and Appreciation	3

Restricted Electives:

MUS 118	Sound Recording	4
TA 41*	Stage Lighting	3
TA 42	Costume Design	3
TA 44*	Theatre Scenery Painting	2
TA 102*	Stage Management	3
TA 130	Theatre Management	3
TA 201*	Entertainment Computer Aided Drafting	2
TA 246 *	Theatre Audio Techniques	3

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.

Travel and Tourism Certificate Program

The Travel and Tourism 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*
TOUR 250	Introduction to Travel and Tourism	3
TOUR 252	World Destinations/Resorts—Western Hemisphere	3
TOUR 253	World Destinations-Europe	3
TOUR 254	World Destinations-Pacific, Asia, Africa	3
TOUR 255	Travel Sales and Marketing	3
TOUR 257	Tours and Cruises	3
TOUR 259*†	Airline Computer Training	2
TOUR 260*	Advanced Airline Computer Training	2
CWE 180*	Cooperative Work Experience: Travel Agency Operation	1
	Total	**23**

*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 Degre

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

RECOMMENDED ELECTIVES: ACCT 215; BUS 1, 102, 125, 135, 137, 138; CIM 121AB.

Women's and Gender Studies Associate Degree Program

The curriculum in the Women's and Gender Studies Associate Degree program is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree would demonstrate commitment to the major. Attainment of an Associate degree may support attempts to gain entry-level employment.

Core Requirement

Course ID	*Title*	*Units*
WS 10	Introduction to Women's Studies	3

Majors must also select a minimum of 17 units from the following courses:

ANTH 21	Women and Culture: Cross-Cultural Perspectives	3
ART 21	Women and Art	3
CA 29	Women in Film and Television	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	The Psychology of Women	3
SOC 21	Women in Contemporary Society	3
SP 8	Gender Communication	3
WS 40	Women and Religion: In Search of the Goddess	3
WS 120	Women and Careers	3

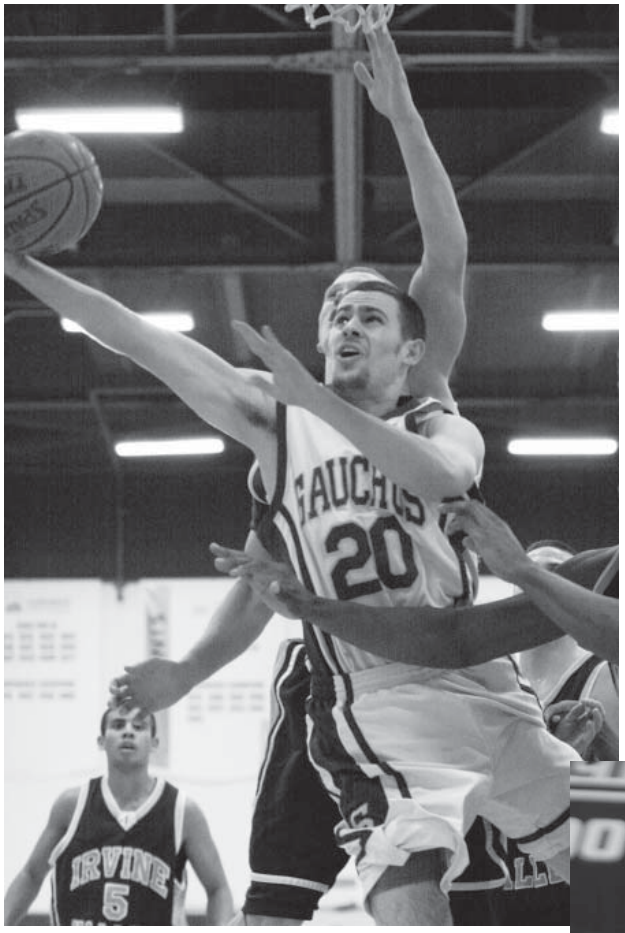
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Arts Degree

Complete 18 units as described 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 Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

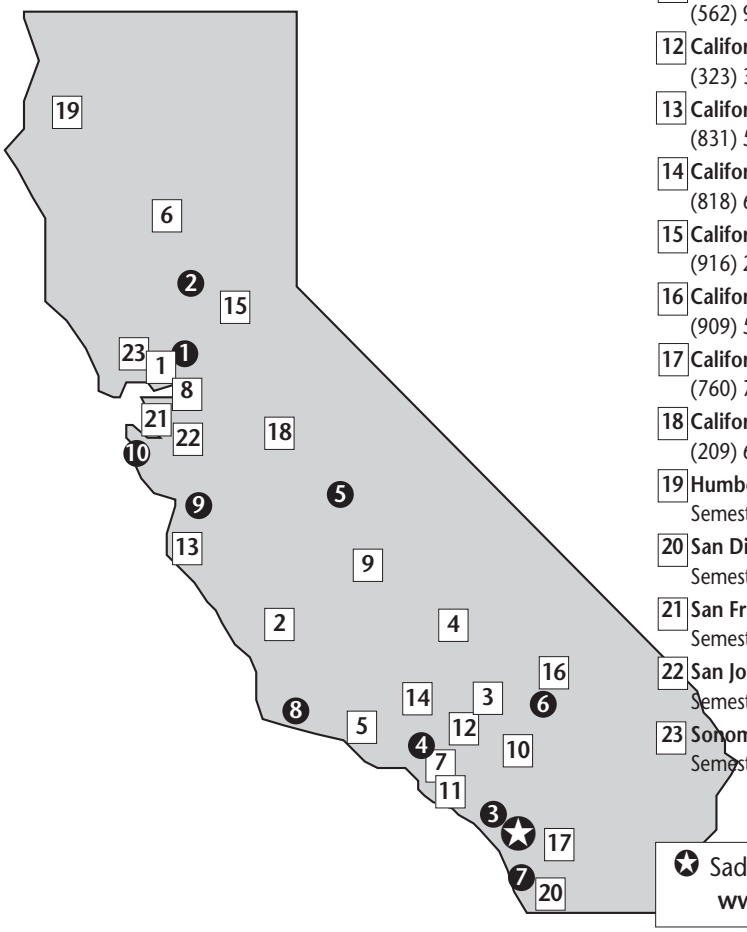


Certificates and Degrees

California Four-Year Public Universities

University of California – 10 Campuses

1. **University of California, Berkeley** (1868) • (510) 642-6000
   Semester Enrollment 26,002 • www.berkeley.edu
2. **University of California, Davis** (1908) • (530) 752-1011
   Quarter Enrollment 23,897 • www.ucdavis.edu
3. **University of California, Irvine** (1965) • (949) 824-5011
   Quarter Enrollment 23,646 • www.uci.edu
4. **University of California, Los Angeles** (1919) • (310) 825-4321
   Quarter Enrollment 26,585 • www.ucla.edu
5. **University of California, Merced** (2004) • (209) 724-4400
   Semester Enrollment 1,782 • www.ucmerced.edu
6. **University of California, Riverside** (1954) • (951) 827-1012
   Quarter Enrollment 15,233 • www.ucr.edu
7. **University of California, San Diego** (1964) • (858) 534-2230
   Quarter Enrollment 22,976 • www.ucsd.edu
8. **University of California, Santa Barbara** (1944) • (805) 893-8000
   Quarter Enrollment 19,003 • www.ucsb.edu
9. **University of California, Santa Cruz** (1965) • (831) 459-0111
   Quarter Enrollment 14,579 • www.ucsc.edu
10. **University of California, San Francisco**, is a graduate/professional institution requiring pre-professional preparation or graduate standing for admission. (415) 476-9000 • www.ucsf.edu



Saddleback College
www.saddleback.edu

California State University – 23 Campuses

1. **California Maritime Academy** (1929) • (800) 561-1945
   Semester Enrollment 828 • www.csum.edu
2. **California Polytechnic State University, San Luis Obispo** (1901)
   (805) 756-2311 • Quarter Enrollment 19,777 • www.calpoly.edu
3. **California State Polytechnic University, Pomona** (1938)
   (909) 869-3210 • Quarter Enroll. 20,510 • www.csupomona.edu
4. **California State University, Bakersfield** (1965)
   (661) 654-3036 • Quarter Enrollment 7,800 • www.csub.edu
5. **California State University, Channel Islands** (2002)
   (805) 437-8500 • Semester Enrollment 3,800 • www.csuci.edu
6. **California State University, Chico** (1887) • (530) 898-6321
   Semester Enrollment 17,034 • www.csuchico.edu
7. **California State University, Dominguez Hills** (1960)
   (310) 243-3696 • Semester Enrollment 12,082 • www.csudh.edu
8. *** California State University, East Bay** (1957) • (510) 885-2784
   Quarter Enrollment 13,124 • www.csueastbay.edu
   ** formerly CSU Hayward*
9. **California State University, Fresno** (1911) • (559) 278-2261
   Semester Enrollment 22,098 • www.csufresno.edu
10. **California State University, Fullerton** (1957) • (714) 278-2300
    Semester Enrollment 37,130 • www.fullerton.edu
11. **California State University, Long Beach** (1949)
    (562) 985-5471 • Semester Enrollment 36,859 • www.csulb.edu
12. **California State University, Los Angeles** (1947)
    (323) 343-3901 • Quarter Enrollment 21,051 • www.calstatela.edu
13. **California State University, Monterey Bay** (1995)
    (831) 582-3518 • Semester Enrollment 3,820 • www.csumb.edu
14. **California State University, Northridge** (1958)
    (818) 677-3700 • Semester Enrollment 35,446 • www.csun.edu
15. **California State University, Sacramento** (1947)
    (916) 278-3901 • Semester Enrollment 28,829 • www.csus.edu
16. **California State University, San Bernardino** (1960)
    (909) 537-5188 • Quarter Enrollment 17,066 • www.csusb.edu
17. **California State University, San Marcos** (1989)
    (760) 750-4848 • Semester Enrollment 9,167 • www.csusm.edu
18. **California State University, Stanislaus** (1957)
    (209) 667-3122 • 4-1-4 Enrollment 8,836 • www.csustan.edu
19. **Humboldt State University** (1913) • (707) 826-4402
    Semester Enrollment 7,435 • www.humboldt.edu
20. **San Diego State University** (1897) • (619) 594-6336
    Semester Enrollment 32,693 • www.sdsu.edu
21. **San Francisco State University** (1899) • (415) 338-1113
    Semester Enrollment 30,125 • www.sfsu.edu
22. **San Jose State University** (1857) • (408) 283-7500
    Semester Enrollment 31,906 • www.sjsu.edu
23. **Sonoma State University** (1960) • (707) 664-2778
    Semester Enrollment 8,769 • www.sonoma.edu

Articulation/Transfer Patterns

Transfer Planning

I. Transfer students, that is, students planning to enter a university 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. Admissions Information
2. Major course requirements
3. General education or breadth requirements

B. Notice 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 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 and major preparation. 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.**

II. 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 Career Center. The Career Center maintains catalogs and applications from other institutions as well and will provide assistance in obtaining information and applications.

IV. Student Responsibility for Meeting Transfer Requirements: All students must assume complete responsibility for compliance with regulations and instructions set forth in university or college catalogs for their intended transfer institution, and 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 for transfer.

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 1-28 (6 campuses)
Fall Semester or Quarter:	October 1- November 30
Winter Quarter:	June 1 - June 30
Spring Semester or Quarter:	August 1 - August 30

*You are urged to file early. Applications to impacted majors must be filed during the initial filing period. The CSU designates major programs as impacted when more applications are received in the initial filing period from CSU eligible applicants than can be accommodated. 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. For more details refer to the CSU Mentor website at www.csumentor.edu

Definition of a Transfer Student

You are considered a transfer student if you have enrolled in a community college or university other than a CSU following high school graduation.

1. Students with fewer than 60 transferable semester (90 quarter) units are considered lower division transfer students.
2. Students who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students.
3. Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

Transfer Admission Requirements

Upper-Division Transfer Requirements *(60 or more transferable semester or 90 or more quarter units — see note below):*

You are eligible for admission if you:

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) or 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) is 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 may accept a limited number of lower-division transfer applicants (applicants with fewer than 60 transferable units). Lower-division transfer applicants will be held to specified CSU eligibility standards. Check with a counselor and CSU mentor: www.csumentor.edu for details.

Transferable Coursework

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.

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 CSU G.E. course pattern which Saddleback College uses to certify that the student has met the required minimum of 39 semester units of general education is listed below.

Transfer Students and Certification of California State University General Education Requirements

(The Following Information is Subject to Change)

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 G.E. Breadth requirement must be sure that the course is approved for the academic year in which it is taken. **This list is valid through Summer 2010 and is subject to change. Students are advised to consult with a Saddleback College counselor when planning coursework.**

Under provisions of CSU Executive Order 595, 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.

After transfer, students must complete at least nine units of upper-division General Education courses in their junior or senior year.

No student will be eligible to petition for certification until a minimum of 12 units has been completed at Saddleback College.

AREA A: COMMUNICATION AND CRITICAL THINKING—Three courses totaling a minimum of nine units are required. *(Complete one course in Areas A1, A2,* and *A3 with a grade of "C" or better)* A grade of C- is not accepted in Area A:

A1 Oral Communication—SP 1 or 5 (formerly 105)

A2 Written Communication—ENG 1A

A3 Critical Thinking—*One course from the following*:
ENG 1B, 170; PHIL 12; SP 2, 3

AREA B: NATURAL SCIENCES AND MATHEMATICS—At least nine units are required in Areas B1 through B4. *(One course must be taken from Areas B1* and *B2 [one of which must be a laboratory course designated B3 with an asterisk*],* and *one course from area B4):*

B1 Physical Science

ASTR 1,* 20 (*lab course when combined with ASTR 25), 21, 45, 145
CHEM 1A*, 1B*, 2A*, 2B*, 3*, 8*, 12A*, 12B*, 20*, 108*,120*
ENV 23* [F89], 120*
GEOL 1*, 2*, 3, 4, 5*, 6* [S07], 7, 20*, 21, 23*[F89]
GEOG 1, 1and 1L*, 20
MS 1*, 4*, 20*
PHYS 2A*, 2B*^, 3A*, 4A*, 4B*^, 4C* [S07], 20*, 21*

B2 Biological Science

ANTH 1 (*lab course when combined with ANTH 1L), 10A, 16 (formerly 110A)
BIO 3A* (formerly 1A*), 3B* (formerly 1B*), 3C* (beginning Spring 2007), 6* (prior to F95), 11*, 12*, 15*, 16*,18*,19*, 20*, 24, 40, 41, 43, 113* (beginning Fall 2003)
ENV 18*, 19*, 24* (lab designation beginning Fall 2007)
HORT 20*
MS 3*

^ Retroactive to Fall '91

B3 *Indicates a laboratory course

B4 Mathematics

Courses applicable to Area B4 must be completed with a grade of "C" or better. A grade of C- is not accepting in Area B4:
MATH 2, 3A, 3B, 3C, 4B, 5, 6A, 6B, 7, 8, 9, 10, 11, 12, 24, 26, 112, 124, 128

Note: An intermediate algebra course (MATH 122) completed prior to Fall Semester 1988 will be accepted by the CSU as meeting graduation requirements in general education.

AREA C: ARTS AND HUMANITIES—At least three courses totaling a minimum of nine units are required. *(Complete one course from Area C1* and *one course from Area C2. Complete a third course from either area):*

C1 Arts

ART 1, 4, 20, 21, 22, 23, 24, 25, 26, 28, 29 (formerly 27)
ARCH 12 (formerly 112)
CA 29, 30
DANC 64 (formerly PE/TA 64)
FASH 144 (beginning Fall 1993)
FA 20, 27
ID 110, 122, 125
MUS 1, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 [F90], 31, 32, 33, 34, 35, 40, 47, 49, 90, 91
PHOT 25
SP 32
TA 10, 11, 20, 21 (prior to Fall 1993), 22, 25, 26, 32,110

C2 Humanities

ARAB 1 [F90], 1A [F90], 1B [F90], 2 [F90], 3 (beginning Spring 2007), 4 (beginning Spring 2007), 21
CHI 1 [F89], 1A [F89], 1B [F89], 2 [F89], 3 (beginning Fall 2007), 4 (beginning Fall 2007), 21
ENG 3, 4, 5, 7, 15A, 15B, 17A, 17B, 18, 19, 20, 21A, 21B, 21C, 21D, 21E, 23A, 23B, 24, 25, 27A, 27B, 27C, 27D, 27E, 27F, 29, 31 (formerly 131A), 31B, 32, 33, 34, 35, 36, 40, 41, 44, 46, 47, 48, 50, 52, 54, 56, 131A, 131B, 132, 134, 135, 136, 142 (formerly 42)
FR 1*, 1A*, 1B*, 2*, 3, 4, 10, 20, 21
GER 1*, 1A*, 1B*, 2*, 3, 4, 10, 21
HEBR 1 [F89], 1A [F89], 1B [F89], 2 [F89], 21
HIST 4 [F93], 5 [F93]
HUM 1, 2, 3, 4, 5, 10A, 10B, 21, 22, 25 (F08)
IDS 1, 2, 3, 5 (F08)
ITA 1*, 1A*, 1B*, 2*, 3, 4, 10, 21
JA 1 [F89], 1A [F89], 1B [F89], 2 [F89], 3 (reinstated), 4 (reinstated), 10 [F89], 21
KOR 1A, 1B, 21 [F96]
LAT 1 [F90], 1A [F90], 1B [F90], 2 [F90]
PHIL 1, 3, 4, 8, 9, 10, 14, 15
PORT 21
PRSN 1, 2, 3, 4
RUS 1 [F90], 1A [F90], 1B [F90], 2 [F90], 21 [F90]
SL 1 (formerly 32), 2 (formerly 33), 3 (formerly 34), 4 (formerly 35) [Sign Language courses beginning Fall 1993]

SPAN 1* (or 1A* and 1B*), 2*, 3, 4, 10, 20A, 20B, 21A, 21B
SP 30, 31
TA 30, 31
VIET 21
*Beginning Fall 1988

AREA D: SOCIAL AND BEHAVIORAL SCIENCES—At least three courses totaling a minimum of nine units are required. **+**Courses are to be selected from Area D1 through D0 in at least two areas:

D1 Anthropology
ANTH 2, 3, 5 (F08), 6, 8, 9, 10, 13 (beginning Spring 2007), 14 (beginning Fall 2003), ENV/SOC 22, ENV 36, HD 7, 15, HIST 26, 74, HS 100 (prior to F86), SOC 100 (prior to F88), HS 120 (prior to F86)

D2 Economics
ECON 2, 4 (formerly 1), 20 [MGMT 100 prior to Fall 1986], ENV 36, HD 15, HIST 26, 74, HS 100 (prior to F86), 120 (prior to F86), PS 9

D3 Ethnic Studies
ANTH 4, 7 (beginning Spring 2007); CCS 1, 2, 10; ENV 20, 21, HD 15, HIST 20, 26 (prior to S89), 33 (beginning Fall 2001), 74, 81; HS 100 (prior to F86), 120 (prior to S86); MGT 100 (prior to F88); PSYC 16^ (formerly 116); SOC 4, 5# (beginning Fall 2004), 6, 20, 100 (prior to S88)

D4 Gender Studies
ANTH 21; ENV 35; HD 7, 15; HIST 21, 26; HS 120 (prior to F86); PS 9, 21; PSYC 21; SOC 21, 100 (prior to S89); WS 10, 21, 40

D5 Geography
GEOG 2, 3, 38; HIST 26, 74; HS 100 (prior to F86), SOC 100 (prior to F88), PS 9

D6 History
HIST 7, 8, 9, 10 (beginning Spring 2007), 11, 12, 15 (beginning Spring 2007), 16, 17, 18, 19, 22, 25, 27, 28, 30, 31, 32, 40, 41, 60, 62 (beginning Fall 2003), 63 (beginning Fall 2003), 70, 71, 72, 74; HD 15; HS 100 (prior to F86)

D7 Interdisciplinary Social or Behavioral Science
ANTH/SP 20 (formerly 109); CA/JRN 1 (beginning Fall 2005); ECON/ENV 6; ENV 1; HIST/PS 61 [F93], 74, 75, 80; PS/ECON 11; PSYC/SOC 30; SP 109

D8 Political Science
PS 1, 2, 4, 10 (beginning Spring 2007), 12, 14; PS/ECON 11, 17

D9 Psychology
PSYC 1, 2, 3, 5# (beginning Fall 2005), 7#/CD 7 (formerly CDES 7), 16^ (beginning Spring 2007), 33# (beginning Spring 2007), 37 (beginning Spring 2007)

D0 Sociology
SOC 1, 2, (retroactive Fall 1991), 5# (retroactive Fall 1991), 10, 15/CD 15 (formerly CDES 15), 25 (beginning Fall 2005), 120 (prior to F88)
(HS 100, 120 prior to Fall 1986)

^PSYC 16 (formerly 116) either D3 [Fall 1993] or D9 [Fall 2007]

#Course listed in more than one area, but shall not be certified in more than one area.

+Note: CSU Graduation Requirement in U.S. History, Constitution and American Ideals: This CSU requirement can be met prior to transfer by completing PS 1 from Area D8 AND one U.S. History course in Area D6 selected from: HIST 7, 8, 16, 17, or 22. Courses taken to meet this requirement can also be used for 6 of the 9 units required in Area D above.

AREA E: LIFE SKILLS (A minimum of three units required):
APSY 140, 145, 150, 151, 160, 162, 163, 165
BUS 116 (beginning Fall 2002)
FASH 141 (formerly CFR/FCS 140)
FCS 115, 142 (beginning Fall 1997)
FN 50, 64
GERO 101
HLTH 1, 3; HLTH/HSC 105, HSC 120
HS 175 (beginning Fall 1995)
IDS 107
KNES 107 or select one course from KNES 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 41, 42, 43, 44, 45, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 90, 92, 93, 94 or DANC 63 (formerly PE/TA 63); or KNEA 1 or 107 (**Note**: one course maximum)
PSYC 5# (beginning Fall 2005), 7# (F05)/CD 7 (formerly CDES 7), 33#
SPS 100, 110
WS 30, 100, 120, 135

#Course listed in more than one area, but shall not be certified in more than one area.

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 in the year when taken. 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 can certify coursework on a California State University or an approved California Community College general education course list or approved by Saddleback College faculty as meeting CSU general education-breadth certification standards.

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.

Students meeting area requirements may petition for partial certification in one or more of the areas (i.e., Area 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.

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 other college or university which accepts CSU certification.

IMPORTANT:

In general, courses listed as preparation for the major may also be 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.

Also refer to ASSIST at www.assist.org which is the official California state-wide database listing a selection of campus-approved articulation/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 accepts applications for Fall only	
Fall Semester:	November 1-30

For further information regarding the application and admissions process, refer to the UC's online undergraduate application website at www.universityofcalifornia.edu

Eligibility for Transfer

California Residents: To qualify for admission to the University as a transfer student, a student must meet one of the following three sets of requirements. The pathway a student follows depends upon whether they were eligible for admission to the UC when they graduated from high school. California residents must have at least a "C" (2.0) average in all transferable college coursework.

1. Students who were eligible for admission to the University when they graduated from high school [meaning they satisfied the Subject, Scholarship, and Examination requirements, or were identified by the University during the senior year in high school as eligible under the Eligibility in the Local Context (ELC) program], are eligible to transfer if they have a "C" (2.0) average in transferable coursework.
2. Students who met the Scholarship Requirement but not the Subject Requirement must take transferable college courses in the missing subjects, earning a "C" or better in each required course, and have an overall "C" (2.0) average in all transferable college coursework to be eligible to transfer.
3. Students who were not eligible for admission to the University when they graduated from high school because they did not meet the Scholarship Requirement must:
   A. Complete 60 semester units or 90 quarter 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.)

Nonresidents: The minimum admission requirements for nonresidents are very similar to those for California residents. However, nonresidents must have a grade point average of 2.8 or higher in all transferable coursework. Students are advised to consult with the Admissions Office at the UC campus of choice for details and specific requirements.

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) you were enrolled at one or more California community colleges for at least two terms (excluding summer sessions);
2) the last college attended before admission to a UC campus was a California community college (excluding summer sessions); and
3) you have completed at least 30 semester (45 quarter) UC-transferable units at one or more California community colleges.

Program Planning for Transfer to a UC Campus

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 Office of the President (UCOP) annually reviews Saddleback College course offerings to determine which courses are similar in nature, scope, and content to UC offerings. Saddleback College's UC-transferable course listings are available on ASSIST at www.assist.org. Saddleback College courses which do not appear on the UC Transfer Course Agreement (TCA) and are numbered from 1 to 99 are either pending UC transfer credit review by the UC Office of the President, or were not approved as UC-transferable. Consult with a Saddleback College counselor and refer often to ASSIST at www.assist.org.

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.

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. 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 IGETC. However, IGETC should not be done to the exclusion of completing any preparatory courses needed for admission to the major.

It is not advisable for transfers to engineering and science majors at any UC campus to use IGETC. Students entering "high unit" majors, such as those in the sciences, 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. Some majors specifically prohibit the use of IGETC.

Courses on the following IGETC list are approved for the 2009-2010 academic year and are subject to change. Students 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. Grades of C- will not apply in any category.

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 apply. The course must have been certified in the year when completed.

C. Oral Communication: SP 1 (required for CSU transfers only)

AREA 2—MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

(1 course required):

MATH 2**, 3A**, 3B, 3C (formerly 4A), 4B, 6A, 6B, 7**, 8**, 9, 10, 11**, 24, 26.

AREA 3—ARTS and HUMANITIES

(at least three courses, nine semester units)

At least one course from the Arts, and one from the Humanities, and a third from either area.

A. Arts courses:

ARCH 12** [S'07], ART 4, 20, 21, 22 [F'94], 23 [F'94], 24 [F'96], 25, 26, 28, 29 [F'02]; CA 29 [S'07], 30 [F'94]; DANC 64 (formerly PE/TA 64) [F'96]; FA 20 [F'94], 27; MUS 20, 21 [F'94], 23 [F'94], 24, 25, 26, 27 [F'94], 28 [F'94], 29 [F'94]; PHOT 25 [F'94]; TA 20, 21, 25, 26.

B. Humanities courses:

ARAB 3 [S'07], 4 [S'07], 21 [^F'95]; CHI 3 [F'07], 4 [F'07], 21 [F'95]; ENG 15A, 15B, 17A, 17B, 18, 19, 20, 21A, 21B, 21C [F'95], 21D [F'95], 21E [F'95], 23A [F'95], 23B [F'95], 24 [F'95], 25, 27A, 27B, 27C, 27D, 27E, 27F, 31 [F'02], 35 [F'92], 44 [F'95], 46, 47, 50, 52 [F'97], 54 [F'95]; FR 3, 4, 20 [F'95], 21 [F'95]; GER 3, 4 21 [F'95];HEBR 21 [F'95]; HIST 4, 5, 18, 30*, 40*, 41*, 60, 61 [PRIOR TO F'95] 70*, 71*, 72* [F'01], HIST/PS 75*; HUM 1, 2, 3, 4, 10A, 10B, HIST 21/IDS 1 [F'94], HUM 22/IDS 2 [F'94]; ITA 3, 4, 21 [F'95]; JA ^3, ^4, 21 [F'95]; KOR 21 [F'95]; PRSN 3 [F'05], 4 [F'05]; PHIL 1, 3, 4, 14, 10, 15; SL 3 (formerly 34) [F'98], 4 (formerly 35) [F'98]; PORT 21 [F'95]; PS 61 [PRIOR TO F'95]; RUS 21 [F'95], SPAN 3, 4, 20A [F'01], 20B [F'01], 21A [F'01], 21B [F'01], VIET 21 [F'97]

^Reinstated

AREA 4—SOCIAL and BEHAVIORAL SCIENCES

(at least three courses, nine semester units required)

Courses from at least two disciplines (courses listed by discipline, e.g., Anthropology, Political Science).

ANTH 2, 3 [F'03], 4 [S'07], 5 [F'08], 6 [F'03], 7 [S'07], 8 [F'02], 9, 10 [F'98], 13 [S'07], 14 [F'03], ANTH/SP 20 **[F'98], ANTH 21 [F'92]; CA/JA 1 [S'07], CCS 1 [F'96], 2 [F'96], 10 [F98]; ECON 2, 4 (formerly 1), ECON/ENV 6 [F'96], ECON/PS 11 [F'00]; ECON 20** [F'94]; ENV 1 [F'01], GEOG 2, 3; HIST 7** [F'96], 8** [F'96], 9 [S'07], 10 [S'07], 11 [S'07], 12 [F'02], 15 [S'07], 16**, 17**, 18, 19, HIST/SOC 20, HIST 21 [F'92], 22**, 25 [S'07], 27 [F'98], 28 [F'98], 30*, 32 [S'07], 33 [F'01], 40*, 41*, 60, HIST/PS 61 [F'92], HIST 62 [F'03], 63 [F'03], 70*, 71*, 72* [F'01], 74 [F'98], HIST/PS 75*, HIST/PS 80 [F'00], HIST 81 [F'94]; HD 7; PS 1, 2, 4, 10 [S'07], 12, 14, 21 [F'98]; PSYC 1, 2, 3, 5 [S'06], 7/CD 7(formerly CDES 7), 16 [S'07], 21 [F'92], PSYC/SOC 30, PSYC 33 [S'07], 37 [S'07]; SOC 1, 2, 4, 5, 6 [F'96], 10 [S'05], 15 [F'97]/CD 15 (formerly CDES 15) , 21** [F'92], 25 [S'06]; WS 10, 40 [F'95].

AREA 5—PHYSICAL and BIOLOGICAL SCIENCES

[Two courses and a minimum of seven units required]

Select one Physical Science course and one Biological Science course; at least one course must include a laboratory. **Note**: All courses with a laboratory component are underlined.

A. Physical Science courses:

ASTR 1 [PRIOR TO F'94], 20, 20 and 25, ASTR/GEOL 21 [F'01], ASTR 45 [F'01]; CHEM 1A**, 1B**, 3**, 12A [S'07], 12B [S'07]; ENV/GEOL 23; GEOG 1, 1 and 1L [F'99]; GEOL 1, 2, 3 [S'05], 4 [S'04], 5, 6 [S'07], 7 [S'04], 20**; MS 4, 20; PHYS 2A**, 2B**, 3A [F'00], 4A**, 4B**, 4C** [S'07], 20**.

B. Biological Science courses:

ANTH 1, 1 and 1L [F'98]; BIO 2, 3A [formerly 1A], 3B [formerly 1B], 3C [S'07], 5 [F'91-F'93], 6 [PRIOR TO F'94], 11 [F'93], 15 [S'07], 18 [F'99], BIO/ENV 19 [S'05], BIO 20**, 40; 43 [S'07]; ENV 18 [F'99], 24 [S'07].

LANGUAGE OTHER THAN ENGLISH (required for UC transfers only): Proficiency equal to two years of study in one foreign language in high school with grades of "C" or better. (An official copy of the high school transcript must be on file in Admissions and Records at Saddleback College); or select one course from the following: ARAB 1 [F'02], 2 [F'05], 3[F'07], 4 [F'07]; CHI 1, 1B, 2 [F'05], 3 [F'07], 4 [F'07]; FR 1, 1B, 2 [F'05], 3 [F'05], 4 [F'05]; GER 1, 1A & 1B, 2 [F'05], 3 [F'05], 4 [F'05]; HEBR 1, 1A & 1B, 2 [F'05]; ITA 1, 1B, 2 [F'05], 3 [F'05], 4 [F'05]; JA 1, 1A & 1B, 2 [F'05], 3 [F'07], 4 [F'07]; PRSN 1, 2 [F'05], 3, 4; SPAN 1 2 [F'05], 3 [F'05], 4 [F'05], 6 [F'05]; or SL 1 (formerly SL 32 F'98) 2 [F'05], 3 [F'05], 4 [F'05]; OR students can fulfill the IGETC Language Other Than English (LOTE) proficiency requirement in one of the following ways [**Note**: The following information is subject to change]:

1) Official high school transcripts showing 2 years of high school coursework in one language other than English with a grade of "C-" or better in the fourth or later semester ("C-" for high school coursework is calculated as a "C" grade by the UC);
2) Complete, with at least a grade of "C" or better, one semester of any IGETC approved language other than English course at Saddleback College, or completion of any college-level foreign language course (excluding conversation courses) considered by the college to be equivalent to 2 years of high school foreign language. IGETC approved coursework above the proficiency level (e.g., above Foreign Language Level 1 at Saddleback College) may also be used to satisfy LOTE requirements and may also be used to satisfy IGETC requirements in Area 3 (Humanities) if on the college's approved IGETC certification list.
3) Achieve a satisfactory score on the SAT Subject Test in languages other than English (see a counselor for required test scores).
4) Achieve a score of 3 or higher on the College Board Advanced Placement (AP) Examination in a language other than English.
5) Achieve a score of 5 or higher on an International Baccalaureate (IB) Higher Level Examination in a language other than English.
6) Satisfactorily complete a proficiency test administered by a community college, university or other college in a language other than English. The test must assess student proficiency at a level equivalent to at least two years of high school foreign language.
7. (a) Official records which verify completion, with "C" grades or better, two years of formal schooling at the sixth-grade level or higher in an institution where the language of instruction is not English; or

(b) If secondary school was completed in a non-English-speaking country and the language of instruction at the secondary school was not English, LOTE can be certified for IGETC. The student must present official documentation of attendance at the secondary school.

U.S. HISTORY, CONSTITUTION, AMERICAN IDEALS *(CSU GRADUATION REQUIREMENT ONLY):*

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. Application of the above courses to area 4 as well as to the American Institutions and Ideals requirement is at the discretion of the CSU campus.

*Course 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. Refer to the "Courses Accepted for Transfer to the University of California" listing in this section of the catalog, and ASSIST at www.assist.org and the Counseling Services office at Saddleback College 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 at Saddleback College 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, a 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 completed on an approved California Community College course list in the year it was taken . Courses completed at non-certifying colleges and universities will be certified only when deemed equivalent to courses on approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and rigor standards.

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 to courses on an approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and academic rigor standards.

Partial Certification of IGETC Requirements

Student may be partially certified if deficient no more than two courses. 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. Warning: Students need Area 1 and 2 completed to meet minimum transfer admission requirements. Therefore, partial certification that acknowledges a deficiency in Area 1 and/or 2 may also indicate a student does not meet minimum transfer requirements.

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 courses meeting general education breadth requirements for UC campuses are available in the Counseling Services office or refer to ASSIST website at www.assist.org

Articulation agreement information regarding course-to-course and major requirements for UC campuses is also available on ASSIST.

University of California Transfer Admission Programs

The UC campuses offer a variety of programs in support of transfer admission, particularly for community college students. Inquire in the Counseling Services office for information regarding the Transfer Admissions Guarantee (TAG) program with all UC campuses except UC Berkeley and UC Los Angeles. In addition, students completing the Honors Program at Saddleback College are eligible for priority or guaranteed admission to participating UC campuses such as UC Irvine (Community College Honors Transfer Program), or UC Los Angeles (Transfer Alliance Program). For more information on available Honors UC transfer admissions programs, visit the Saddleback College Honors Program website: www.saddleback.edu/ap/hon/transfer or contact the Transfer Center.

Independent California Colleges and Universities

There are 77 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. There are many other private colleges and universities which are not affiliated with AICCU as well. Admissions policies vary widely from one 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.	(CSU)IGETC	(UC)IGETC
Azusa Pacific Univ.		X+	
Biola Univ.		X+	
Chapman Univ.	X+	X+	X+
Concordia Univ.	X+	X+	X+
Dominican College San Rafael		X+	
Golden Gate University		X	
Hope Int'l. Univ.		X*+	X+
Otis College-Art & Design		X+	
Univ. of the Pacific	X	X	X
Univ. of Phoenix	X+	X+	X+
Univ. of San Francisco		X+	
Vanguard University		X+	

**Campus preferred option*

+Requires additional 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 numerous other independent colleges and universities, including Azusa Pacific University, Biola University, Chapman University, Concordia University, Embry-Riddle Aeronautical University, Hope International University, Los Angeles College of Chiropractic, Loma Linda University, National University, Occidental College, Pepperdine University-The Graziadio School of Business and Management, South Baylo University, Southern California College of Optometry, University of Phoenix, University of Redlands, University of San Diego, University of Southern California, Westmont College, and Woodbury University, among many others.

Transfer Major Patterns

(Information Subject to Change without Notice)

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. The student also should complete the general education or breadth requirements for the college of 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.

The following pages list selected 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 a few examples of the many majors available and are subject to change as articulation is a year-round process. The Saddleback College Articulation Officer, in cooperation with instructional faculty, will continue to establish new articulation agreements, 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 Counseling Office, or refer to the ASSIST website at www.assist.org which is the official state-wide database listing CSU and UC campus-approved transfer agreements, general education requirements, and information on UC and CSU-transferable courses. Students are also advised to contact a Saddleback College counselor for more information and details regarding other transfer agreements and options not listed in this section or which may not be available on ASSIST for your transfer college choice.

Articulation/Transfer Major Pattern Examples for Selected Programs and Campuses:

The following selected examples of transfer major patterns for representative colleges are based on articulation information available at the time of Saddleback College catalog publication deadlines and are subject to change without notice, as articulation is a year-round process. Please check with the Counseling office, and the ASSIST website at www.assist.org for current articulation information.

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:

ANTH 1	F	LB	SD
ANTH 2	F	LB	SD
ANTH 3		LB	
ANTH 9	F	LB	
MATH 10			SD

*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).

Refer to ASSIST at www.assist.org for additional information regarding these programs.

General education requirements: California State University general education requirements are listed in the introduction to this section of the catalog.

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

This major is impacted and applications are accepted only during the CSU initial filing period for Fall. Refer to ASSIST at www.assist.org for details regarding selection criteria and GPA requirements.

Lower-division Major Preparation: +ARCH 34, 42, 44, 124A, 136.

Cal Poly Pomona lower-division preparation should also include: ENG 1B*; MATH 124*; PHYS 2A; SP, 3. ***Note**: The "Golden Four" (Oral Communication, English Composition, Critical Thinking and Quantitative Reasoning) G.E. Certification requirements must be completed no later than the Fall semester prior to Fall transfer.

Bachelor of Science in Landscape Architecture

Interested students are advised to consult with a Cal Poly Pomona advisor. **Note**: Students are advised to complete CSU G.E. Certification or IGETC Certification requirements prior to transfer, and required support courses: ART 80, MATH 124 AND CHEM 1A, HORT 113.

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 34, 42, 44, 136.

Lower-division Support Courses: +ARCH 10; MATH 3A, 3B; PHYS (2A or 4A).

Bachelor of Science in Architectural Engineering

Lower-division Support Courses: +ARCH 10, 34, 42, 44, 126, 136; CHEM 1A; GEOL 1; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

Bachelor of Science in City and Regional Planning

Lower-division Support Courses: +ARCH 10; CHEM 1A; MATH (2 or 7 or 8).

Bachelor of Science in Landscape Architecture

Lower-division Support Courses: +ARCH 10; BIO 3B; HORT 10, 11; MATH (2 or 7 or 8) and (2 or 124). Note: The prerequisite for BIO 3B is BIO 3A.

General Education and *Breadth:* See California State University general education certification or the Intersegmental General Education Transfer Curriculum (IGETC) sections in this catalog.

Refer to ASSIST at www.assist.org and /www.ess.calpoly.edu/_admiss/undergrad/index.htm for additional information and transfer selection criteria for Cal Poly San Luis Obispo's Architecture programs.

UNIVERSITY OF CALIFORNIA, BERKELEY

Architecture

Lower-division Design Prerequisites: ARCH (34 and 44); ART (42 and 80).

Lower-division Non-Design Skills Prerequisites: ENG 1A, 1B, 25; MATH 3A, 3B; PHYS 4A.

UC Berkeley does not recommend IGETC for this major. Refer to the UCB catalog and ASSIST at www.assist.org for details regarding course selection for G.E. breadth and program requirements. This major does not confer professional architect status.

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, 51, 52, 60, 61, 62, 70, 71, 72, 81, 85, (ART 140 or GD 140), (ART 144 or GD 144), 175 ; plus nine units of transferable lower-division electives in American Studies, Anthropology, Art, History, Literature, Music, Philosophy, or Theater.

General Studio Art Concentration: ART 25, 26, 40, 41, 50, 80, 85, and at least 6 units of transferable lower-division elective courses from two of the following areas: Ceramics: ART 10, 11; Drawing and Painting: ART 51, 52, 81; Printmaking: ART 60, 61, 62, (ART 140 or GD 140), (ART 144 or GD 144); Sculpture: ART 70, 71, 72, 175.

Teaching Concentration: (Single Subject Instruction—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 are required for all of the following concentrations listed below.

Note: *Concentrations (In fulfillment of the requirements listed below for each concentration, a single course may be used only once.) Ceramics, Crafts, Creative Photography, Drawing and Painting, Entertainment Art/Animation, Graphic Design, Illustration, Printmaking and Sculpture. See ASSIST for course requirements.*

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Arts in Art *Studio Art Option, Art History Option, or Art Education Option

Lower-division Preparation:

**Studio Art Option:* ART 22, 25, 26, 40, 41, 50, 80, 85, and select one course from: GD 148 or PHOT 50 or ART 60 or GD 141; and select one course from ART 10 or 11 or 70 or 78; and select one course from GD 148 or PHOT 50 or ART 10 or 11 or 60 or 70 or 78 or GD 141 or ART 141 or ART 50.

***Note**: The Studio Art option is impacted. Per CSULB, students must complete all general education requirements and all lower-division art prerequisites prior to the semester for which the application is submitted. Students will be admitted based on their overall GPA, on a space available basis. Portfolio of creative work and a letter of recommendation will be required.

Art History Option: ART 22, 25, 26, 40, 80; HIST 62, 63; and select one 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 Option: ART 10, 11, 22, 25, 26, 40, 41, 50, 80, 85. (Single Subject Instruction-major for teaching art in grades K-12)

Bachelor of Fine Arts

The B.F.A. majors at CSULB are impacted. Refer to ASSIST at www.assist.org and CSULB's admissions information website at www.csulb.edu/depts/enrollment/admissions/impacted_major.html for details regarding supplementary admission criteria, GPA and other pertinent admissions information.

Options include: Art Photography, Ceramics, *Drawing* and *Painting, Graphic Design, Illustration, 3-D Media, Printmaking and Sculpture*.

For more information regarding this major, refer to the CSU Long Beach catalog, and ASSIST at www.assist.org

Also refer to general education certification requirements in the introduction to this section of the catalog.

IMPORTANT: Admissions to all of the preceding programs at CSULB are on a competitive basis, and continuing CSULB students and transfer applicants will be considered equally. Transfer applicants must apply during the initial filing period and must designate the major on the application. Students who are not admitted to the major will be admitted to an alternate major if they have listed one on the application. If no alternate major is listed, the student will not be admitted to the university. Students are advised to refer to the current CSULB catalog, ASSIST at www.assist.org, and contact CSULB's College of the Arts for further details and selection criteria for these programs.

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 or 255) 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 four concentrations are available at CSU Fullerton: 1) Biodiversity, Ecology and Conservation Biology; 2) Cell and Developmental Biology; 3) Marine Biology; and 4) Molecular Biology and Biotechnology.

To qualify for a baccalaureate degree in Biological Sciences, students must have a 2.0 overall GPA in all required supporting courses. No credit will be allowed for biological science courses in which a grade of C- or lower is earned. Courses taken with the credit/no credit grading option may not be used.

Lower-division Core Requirements: BIO (3A and 3B and 3C) (complete entire sequence prior to transfer). An additional 5-unit course will 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); MATH (3A or 11) (MATH 3A preferred).

Refer to the CSUF catalog and the ASSIST website at www.assist.org for additional information regarding this program.

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, cell and molecular biology, ecology and environmental biology, physiology, and zoology.

Core Courses:

Biology (General) Option: BIO (3A & 3B & 3C); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B) or PHYS (4A & 4B)

Biology Education Option - (This program is designed for the Single Subject Teaching Credential in Science-Biological Science Concentration): ASTR 20; BIO 3A, 3B, 3C, 15 BIO/ENV 19; CHEM 1A, 1B; GEOL 1; MATH 3A; PHYS (2A and 2B) or PHYS (4A & 4B).

Botany Option: BIO (3A & 3B & 3C); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B) or PHYS (4A & 4B).

Cell and *Molecular Biology Option:* BIO (3A & 3B & 3C), 15; CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B) or PHYS (4A & 4B).

Ecology Option: BIO (3A & 3B & 3C); CHEM 1A, 1B; GEOL 1; MATH 3A, 3B; PHYS (2A and 2B), or PHYS (4A & 4B).

Physiology Option: BIO (3A & 3B & 3C); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B) or PHYS (4A & 4B).

Zoology Option: BIO (3A & 3B & 3C); CHEM 1A, 1B; (GEOL 1 or BIO 15); MATH 3A, 3B; PHYS (2A and 2B) or PHYS (4A & 4B).

Bachelor of Science in Marine Biology

Lower-division Preparation: BIO (3A & 3B & 3C), (BIO 19 or ENV 19); CHEM 1A, 1B; MATH 3A, 3B; PHYS (2A and 2B) or PHYS (4A & 4B). .

Refer to the CSU Long Beach catalog and ASSIST at www.assist.org for additional information regarding both degree programs.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Science in Biological Sciences

Preference will be given to junior-level applicants with the highest grades overall. One year of general chemistry (with laboratory) and an approved sequence of biological sciences are required prior to transfer.

Once enrolled at UCI, Biological Sciences majors may take only UCI courses to satisfy the major requirements.

Lower-division Requirements: BIO 3A, 3B, 41; CHEM (1A & 1B), (12A & 12B); MATH (3A & 3B preferred) *or* (*MATH 3A and *MATH 10); PHYS (4A and 4B) or (4A and 4C).

*__Note__: The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI.

For further details regarding GPA requirements and transfer selection criteria, refer to the UCI catalog and ASSIST at www.assist.org

Business Administration

Admission to many business programs is competitive. Students are strongly advised to complete all of the major preparation courses before transfer. Completion of major preparation and the highest possible GPA makes a student competitive.

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, Entertainment & Tourism, Entrepreneurship, Finance, Management, Management Information Systems, Management Science, and Marketing. A Bachelor of Arts in Economics is also offered (see Economics section of example transfer patterns). 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).

For further details regarding this program, refer to the CSU Fullerton catalog and ASSIST at www.assist.org

Bachelor of Arts in International Business

Lower-division Core Requirements (see Business Administration); and intermediate competency in one foreign language (level 3) in either Chinese, French, German, Japanese, Portuguese, or Spanish is prerequisite to a selected upper-division concentration.

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. For further details regarding this program, refer to the CSU Fullerton catalog and ASSIST at www.assist.org

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Science in Business Administration

This is an impacted program. Refer to the CSULB catalog and ASSIST at www.assist.org for additional information.

Options at the upper-division level in Business Administration include: Accountancy; Finance; 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 or 10 (preferred), 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 (four semesters) at the baccalaureate level in 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 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.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Arts in Business Administration

UC Irvine will begin accepting applications for this new major in Fall 2010. Applications with the highest grades overall (min GPA 3.0) and who successfully complete calculus (Math 3A & 3B) and lower division economics (ECON 2 & 4) will be given preference for admission. Additional courses in accounting and statistics are required. Articulation of accounting and statistics is pending. Check ASSIST (www.assist.org) for the latest information.

UNIVERSITY OF SOUTHERN CALIFORNIA

Bachelor of Science in Business Administration

Required Lower-division Courses:* ECON 2, 4; ENG 1A, 1B; MATH (3A or 11**).

*In addition, students who successfully complete Saddleback's ACCT 1A and 1B with a grade of "B" or better will be allowed to enroll in USC's BUAD 305x rather than BUAD 250AB after transfer. Contact USC's Marshall School of Business-Office of Undergraduate Admissions at (213) 740-8885 or their website at www.marshall.usc.edu for more information.

**The prerequisite for Saddleback's MATH 3A is MATH 2. The prerequisite for Saddleback's MATH 11 is MATH 8.

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 online at www.usc.edu/transferring

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, 2B.

Refer to the CSU Fullerton catalog and ASSIST at www.assist.org for more information regarding both degree programs listed above.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Science in Chemistry

Lower-division Requirements: CHEM 1A, 1B; PHYS 4A, 4B, 4C; MATH 3A, 3B, 3C.

Per CSULB, candidates for this program are advised to acquire competence in reading scientific German, French, Russian, Chinese, or Japanese.

Bachelor of Arts in Chemistry

Lower-division Requirements: CHEM 1A, 1B; PHYS (2A and 2B) *or* (4A and 4B); MATH 3A, 3B.

Bachelor of Science in Biochemistry

Lower-division Requirements: CHEM 1A, 1B; BIO 3A, 3B, 3C; MATH 3A, 3B; PHYS (2A and 2B) *or* (4A and 4B).

Refer to the CSU general education certification requirements in the introduction to this section of the catalog. Also refer to the CSULB catalog and ASSIST at www.assist.org for additional information regarding these programs.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Science in Chemistry

**Lower-division Requirements:* CHEM (1A & 1B), (12A & 12B); MATH (3A & 3B & 3C); PHYS (4A and 4B).

*Students must take UCI's CHEM 5, and BIO SCI 98 & 99 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 and ASSIST at www.assist.org for more information regarding this major.

Chiropractic (pre-Chiropractic)

CLEVELAND CHIROPRACTIC COLLEGE

Lower-division Preparation: BIO 11, 12; CHEM 1A, 1B, 12A, 12B; MATH 7 or above; PHYS (2A and 2B).

Recommended: ENG 1A, 1B; HIST (16 and 17); PSYC 1; SOC 1; SP 1.

For details regarding program requirements and selection criteria, refer to the Cleveland Chiropractic College website at www.cleveland.edu

SOUTHERN CALIFORNIA UNIVERSITY OF HEALTH SCIENCES—LOS ANGELES COLLEGE OF CHIROPRACTIC

Applicants for admission must have completed a minimum of 90 semester units leading to a baccalaureate degree in the arts or sciences with a minimum cumulative GPA of 2.50 or higher on a 4.0 scale. These requirements may increase annually, culminating to a bachelor's degree and a minimum GPA of 3.00. Science courses must be taken in sequential order and must include laboratories. Thirty (30) semester units of upper-division work will be required after transfer. The following course prerequisites must be completed with a grade of "C" or better:

Lower-division Preparation: ENG (1A and 1B) ; a minimum of 15 semester units in social sciences/humanities selected from baccalaureate-level courses; CHEM 1A, 1B, 12A, 12B; PHYS (2A and 2B) *or* (4A and 4B); PSYC 1; and select two courses from: BIO 3A, 3C, 11, 12, 15.

Students are advised to contact the Los Angeles College of Chiropractic at the Southern California University of Health Sciences for further information regarding this program (562) 947-8755 or (800) 221-5222, and website: www.scuhs.edu

Communications

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

Print Journalism Emphasis: ***ADD***: JRN 2; CA 128

Visual Journalism Emphasis: ***ADD***: JRN 2

Photo Communication Concentration: ***ADD***: JRN 2, PHOT 50

Public Relations Concentration: ***ADD***: JRN 2

General education requirements can be satisfied by following the CSU General Education certification pattern outlined in the introduction to this section of the catalog. CA/JRN 1 cannot be double-counted for general education.

*The Accrediting Council on Education in Journalism and Mass Communication 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.

Refer to the CSUF catalog and ASSIST at www.assist.org for additional information regarding these programs.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Arts in Communication Studies (Options)

Lower-division Preparation:

Option in General Speech: SP 1 or (SP 35 or TA 35), 3, 5.

Option in Interpersonal & Organizational Communication: SP 1, 3 or (SP 35 or TA 35), 5.

Option in Communication , Culture and Public Affairs: SP 1, 3, 5, (SP 35 or TA 35).

Refer to the CSULB catalog and ASSIST at www.assist.org for additional information regarding these programs.

Bachelor of Arts in Journalism

Lower-division Preparation: JRN 1, 2.

Although cross-referenced with CA 1, students must take the Journalism

Per the CSULB catalog, all students entering CSULB journalism production courses must be familiar with at least one established word-processing program at the level of at least 40 words per minute. CSULB journalism majors will be required to have a minor which is selected in consultation with a CSULB journalism adviser after transfer. Students interested in this program should contact CSULB's Journalism Department at (562) 985-4981 for additional information. Also refer to the CSULB catalog and ASSIST at www.assist.org

General Education: Refer to CSU G.E. certification requirements.

Dental Hygiene

LOMA LINDA UNIVERSITY

Dental Hygiene Pre-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), PSYCH 1, ANTH 2, SOC 1.

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/ethics, 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 5).

HEALTH & WELLNESS: Select one course from: FN 50, 161, or HLTH 1; and select two PE activity courses.

ELECTIVES: Select electives to complete 64-unit entrance requirements

Students are advised to contact Loma Linda University School of Dentistry at (909) 558-4621 for further information regarding admissions requirements for 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 and admissions requirements vary and are very competitive: *UC Los Angeles; UC San Francisco; 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. Refer to the specific dental school catalog/bulletin and website for details regarding program and admissions requirements. Additional information on dental schools can be obtained from the American Dental Education Association website www.adea.org

Candidates selected for admission to dental schools have generally completed three or four years of a rigorous pre-dental program. Students are advised to make normal progress toward a bachelor's degree. 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 (4A-4B-4C).

BIO 3A, 3B.

ENG 1A, 1B.

PSYC 1 and one additional psychology course; and

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 intended transfer institution.

Economics

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 11) and (MATH 3B or ACCT 1B).

See the CSUF catalog and ASSIST at www.assist.org for additional information regarding program requirements.

General Education: Refer to California State University general education requirements in this catalog.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Arts in Economics

Lower-division Preparation: CS 1A, 4A and 4B; ECON 2, 4; MATH 3A, 3B, 3C, 26; and

Two introductory social science courses from the following: ANTH 1, 2, 3, 9; GEOG 1, 2, 3; PS 4; PSYC 1; SOC 1.

Refer to the UC Irvine catalog or ASSIST at www.assist.org for further details regarding this major.

Education—Teaching

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 students will be required to take the state-approved California Subjects Examination for Teachers (CSET). The CSET is a general subject matter examination covering knowledge of language arts, mathematics, science, social science, visual and performing arts, physical education, and human development. Refer to the *Liberal Studies* major preparation in this section of the catalog for examples of appropriate courses to take for CSET preparation. Students are advised to keep in contact with a Saddleback College counselor for any updates.

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. Students are advised to see a Saddleback College counselor for further information.

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 Counseling Services office. Students are advised to confer with a Saddleback College counselor when planning coursework for transfer.

Note: Interested students can access the California Commission on Teacher Credentialing (CTC) website at www.ctc.ca.gov as well as contacting the Education school of the transfer institution.

Engineering

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Science Degrees for: Civil Engineering; Electrical Engineering; Engineering/Option in Engineering Science; Mechanical Engineering

Math/Science Foundation Requirements for all Majors Listed: MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C; BIO 20, CHEM 1A, 3

Civil Engineering - ***ADD****:* ENGR 31, 33, CHEM 1B.

Electrical Engineering - ***ADD****:* ENGR 33.

Mechanical Engineering - ***ADD****:* DR 23; ENGR 31, 33.

Computer Engineering - ***ADD:*** CS 1B, 1D, CIM 172, ENGR 33

Refer to the CSUF catalog and ASSIST at www.assist.org for further information regarding General Education requirements and selection criteria for these programs.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Science (Engineering majors listed)

Lower-division Requirements:

Aerospace Engineering: BIO 3A or CHEM 1B or GEOL 20, CHEM 1A ; CS 1B; ENGR 31, 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

Biomedical Engineering: CHEM 1A and 1B; CS 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26 and 10; PHYS 4A, 4B, 4C.

Chemical Engineering: CHEM 1A, 1B, 12A, 12B; CS 1B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B.

Civil Engineering: CHEM 1A and 1B; CS 1B; ENGR 31; MATH 3A, 3B, 3C, 24, 26; PHYS 4A; PHYS 4B; and select one course from: PHYS 4C, CHEM 1B, GEOL 20, ENGR 33.

Computer Engineering: CS 1B, 1C, 3A, 1D & 4B or CS 1C; ENGR 33; 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 3B; CHEM 1A, 1B, 12A; CS 1B; ENGR 31; MATH 3A, 3B, 3C, 24, 26; PHYS 4A & 4B.

Mechanical Engineering: CHEM 1A, 1B; CS 1B; 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.

Additional information regarding program requirements and UCI G.E. breadth requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at www.assist.org

English

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts English

*ENG 1A and a maximum of 12 units from the following courses may be selected. At least 30 units must be 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 Preparation:* At least six units from: ENG 15A, 15B, 17A, 17B, or other transferable literature courses selected with CSU Fullerton advisor approval (maximum 12 units).

Refer to the CSUF catalog and ASSIST at www.assist.org for more information regarding this program.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Arts in English

Note: In fulfillment of the requirements below, a single course may be used only once.

Select two courses from: ENG (15A-15B) or (17A-17B) or (21A-21B), ENG 25, 27A, 27B; ***AND***

Two years in a single language other than English at university level (or equivalent): Arabic, French, German, Italian, Persian, or Spanish 3-4; ***AND***

Complete ENG (1A and 1B) and HUM (10A and 10B); ***OR*** ENG (1A and 1B) and two courses from HUM 1, 2, 3;

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

English Literature: ENG 15A, 15B, 17A, 17B, 21A, 21B, 25, 27A, 27B

History: HIST 4, 5, 7, 8, 16, 17, 19, 27, 28, 62, 63, 70, 71, 74 and 75.

Philosophy: PHIL 1, 15

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at www.assist.org

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*) or HIST (17 and 22) or HIST (17 and 20 or SOC 20)

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.

Refer to the CSUF catalog and ASSIST at www.assist.org for further information.

Note: For students interested in the Single Subject Matter Competency Program (Secondary Teaching) in Social Sciences, include the following: ECON 2, 4; GEOG 3; HIST 4, 5, 16, 17, 32; PS 1, 12; and PHIL (1 or 10); also select one behavioral science course from: ANTH 1, 2, 9 or PSYC 1 or SOC 1.

Refer to the CSU 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 (9 units): HIST (16 or 17 or 19), can also be used to fulfill CSULB's requirement in U.S. history, and select at least two lower-division history courses from: HIST 4, 5, 62, 63, or consult with a CSULB program advisor regarding course selection.

Refer to the CSULB catalog and ASSIST at www.assist.org 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.

UNIVERSITY OF CALIFORNIA, BERKELEY

Bachelor of Arts in History

Lower-division Requirements for the Major:

Select one course from each of the following four areas:

1) United States: HIST (16 or 17)

2) Europe/Western Civilization: HIST (4 or 5)

3) Asia, Africa or Latin America: HIST 30, 70 or 71 or 72, 75, 80

4) Elective: Select an additional course from any of the above areas other than a course previously taken to fulfill requirements.

UCB recommends that students complete lower-division requirements prior to transfer. IGETC must be completed by the end of the spring term that precedes fall enrollment at UC Berkeley. Refer to the UCB catalog and ASSIST at www.assist.org for additional information.

Human Services

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Science in Human Services

Community college transfer students may apply a maximum of 12 units of coursework in human services and related fields toward the 54-unit total required for the major. Transfer units must be approved by an advisor and the Program Coordinator at CSUF. Courses may be selected as follows (majors must achieve a grade of "C" or better in all courses included in the core curriculum and in the advisement track.):

CORE COURSES: HS 100, (110* and 150*), 120*; MATH 10.

*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.

Refer to the CSUF catalog and ASSIST at www.assist.org for additional information regarding this program.

General Education: See the general education certification requirements listed in the introduction to this section of the catalog.

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 English major is highly recommended. 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.

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.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Science in Marine Biology

Lower-division Preparation: BIO 3A, 3B, 3C, 19; CHEM 1A, 1B; MATH 3A, 3B; PHYS 2A, 2B or PHYS 4A & 4B.

Refer to the CSULB catalog and ASSIST at www.assist.org for further information.

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, LONG BEACH

Bachelor of Science in Mathematics

Lower-division Requirements: CS 1B; ENG 1B; MATH 3A, 3B, 3C, 26; PHYS 4A.

Refer to the CSULB catalog and ASSIST at www.assist.org for further information. Also refer to CSU general education certification section of this catalog.

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 equivalency from: CS 1B *or* CS (1A and 4A and 4B) (this combination equals UCI's ICSCI 21).

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at www.assist.org

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.

Typically medical schools will evaluate an applicant's abilities and personal qualities through several factors: college coursework and GPA (both cumulative GPA and science GPA); scores on admissions tests (e.g., MCAT); personal statement and interview; in-depth letters of recommendation; practical volunteer experience in a health profession; and research experience in biological medical, behavioral, or physical sciences. Extracurricular activities such as student clubs, organizations, athletics, and community involvement are recommended.

Students are advised to make normal progress toward a baccalaureate degree in a 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 3A, 3B; CHEM 1A, 1B, 12A, 12B; PHYS (2A and 2B) *or* (4A and 4B) (preferred); 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 bulletin of the medical school in which the student is interested.

Music

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; and principle performance area (applied music - 4 units)

**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; and principle performance area (applied music - 6 units)

**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 ITA 2).

** 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.

Refer to the CSUF catalog and ASSIST at www.assist.org for further information regarding these programs.

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):

Lower-division Preparation: BIO 11, 12, 15; CHEM (1A or 3 or 108 or 12A); PSYC 1; (SOC 1 or ANTH 2).

Refer to the CSUF catalog and ASSIST at www.assist.org for more information regarding this program.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Science in Nursing - Basic Nursing Program

This program is impacted and students must apply during the initial CSU application filing period, CSULB states that applicants to the upper-division major must also submit a supplemental application. Each applicant must also schedule a personal interview with a designated nursing faculty member at CSULB prior to transfer. Students are advised to refer to the CSULB catalog and ASSIST at www.assist.org for details regarding program and admissions requirements.

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.

Bachelor of Science in Nursing - Registered Nursing Program

Lower-division Preparation: Earned accredited Associate Degree in Nursing, current California licensure as a Registered Nurse, and 60 transferable units including certification of general education requirements.

Students interested in CSULB's Nursing programs are urged to contact CSULB's Nursing Department and ASSIST at www.assist.org for current information regarding selection criteria and other details regarding program requirements.

UNIVERSITY of CALIFORNIA, LOS ANGELES

Bachelor of Science in Nursing

The Nursing degree at UCLA is designed to prepare registered nurses (RNs) for advanced study at the graduate level. Emphasis is placed upon the preparation of nurses to meet the need for community-based care in a culturally diverse society. Admissions requirements include an Associate's Degree in Nursing from a state-approved program or a Diploma in Nursing from an accredited program, and current licensure as a Registered Nurse with a minimum of one year of full-time experience as an RN within the past five years. For additional information regarding admissions and course requirements, refer to the UCLA catalog and ASSIST at www.assist.org for current details.

Occupational Therapy

A master's degree will be required to practice as an entry-level Occupational Therapist in the United States. Occupational Therapy is a health-care profession that helps people who have been affected by accident or injury, disease, aging, developmental delay, or psychological disability make the necessary lifestyle changes to become more self-sufficient and independent. Career opportunities in Occupational Therapy vary and include hospitals, rehabilitation centers, nursing homes, public and private schools, day care facilities, patient homes, and corporations. Examples of universities offering Occupational Therapy programs at the master's level in California include CSU Dominguez Hills, Loma Linda University, San Jose State University, and the University of Southern California. Students are advised to contact the college or university of interest for further information on their OT program. Also refer to the Occupational Therapy Association of California (OTAC) website at www.OTAConline.org

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 is very competitive. An increasing number of students are entering pharmacy schools after completion of the bachelor's degree.

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 3A & 3B; CHEM 1A, 1B, 12A, 12B; ECON (2 or 4); MATH 3A, 3B, 3C, 24; PHYS 4A, 4B, 4C.

Refer to the UCSD catalog and ASSIST at www.assist.org for further information regarding this program.

UNIVERSITY Of CALIFORNIA, SAN FRANCISCO

Pre-Pharmacy Requirements

UC San Francisco is a graduate/professional institution requiring pre-professional preparation or graduate standing for admission. The following courses will satisfy the pre-pharmacy course requirements for the School of Pharmacy at UC San Francisco.

Lower-division Preparation: BIO 3A, 3C, 12; CHEM 1A, 1B, 12A, 12B; ENG 1A, 1B; MATH 3A, 3B; PHYS (2A or 4A), (2B or 4B); and 18 semester units of UC-transferable Humanities/Social Science courses to include the following: ECON (2 or 4) and SP (1 or 3); and one of the following courses: ANTH 2, PSYC 1, or SOC 1.

Refer to the UC San Francisco School of Pharmacy catalog and ASSIST at www.assist.org for further information regarding admissions requirements for this program.

UNIVERSITY Of CALIFORNIA, SANTA BARBARA

Bachelor of Science in Pharmacology

Students are admitted initially to the pre-major. Per UCSB, admission into the pre-major does not guarantee automatic admission to full major standing. For details regarding GPA, selection criteria and other admissions requirements refer to the UCSB catalog and website www.lifesci.ucsb.edu and ASSIST at www.assist.org

Lower-division Preparation: BIO 3A & 3B & 3C; CHEM 1A & 1B, 12A, 12B; (MATH 3A and 3B) *or* (MATH 11 and UCSB's MATH 34B after transfer), MATH 10 *or* (MATH 24 and 26); PHYS 2A, 2B.

UNIVERSITY OF SOUTHERN CALIFORNIA

Pre-Pharmacy Requirements

Lower-division Preparation: BIO 3A & 3C or 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* (4A and 4B); (PSYC 1 or SOC 1); SP 5; ***AND***

**Humanities Requirement:* Select six transferable semester units of courses in literature, philosophy, history, ethics, foreign language, art history, or music history. Studio or performance classes in art and music are not acceptable; and

**Social & Behavioral Sciences Requirement:* Select six additional transferable semester units of courses in social and behavioral sciences. Recommended areas include anthropology, economics, geography, psychobiology, psychology, or sociology.

*Note: Units will not be counted for candidates who have completed a BA or BS degree before beginning USC's pharmacy program.

Students are advised to contact USC's School of Pharmacy at (323) 442-1466 or (323) 442-1369, and the USC website at www.usc.edu for further details regarding program requirements.

Physical Therapy (Pre-Physical Therapy)

The Commission on Accreditation in Physical Therapy Education (CAPTE) will no longer accredit baccalaureate degree programs.

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.

WESTERN UNIVERSITY OF HEALTH SCIENCES

Doctor of Physical Therapy (DPT)

A bachelor's degree from an accredited institution and completion of all DPT prerequisite coursework are required for admission.

Lower-division Preparation for Prerequisites: BIO 11, 12; CHEM 1A 1B; ENG 1A, 1B; MATH 10; PHYS 2A, 2B; and select two courses from: PSYC 1, 5, or 7.

Students are advised to contact Western University of Health Sciences at (909) 623-6116 for additional information as well as their website at www.westernu.edu

Physician Assistant

LOMA LINDA UNIVERSITY

Masters of Science in Physician's Assistant

The applicant must have a baccalaureate degree from an accredited institution, and at least 1,000 hours of hands-on patient care experience.

Lower-division Preparation: BIO 11, 12, 15; CHEM 1A & 1B; ENG 1A, 1B; MATH 7; PSYC 1; (SOC 1 or ANTH 2). Recommended: CIM (1 or 10), MATH 10, MA 200.

Students are advised to contact Loma Linda's School of Allied Health Professions at (800) 422-4558 and website www.llu.edu/llu/sahp/transfer for more details regarding admissions and program requirements.

WESTERN UNIVERSITY OF HEALTH SCIENCES

Physician Assistant Program

Admission to this program is on a competitive basis. All applicants admitted to the program must have earned a bachelor's degree from an accredited college or university.

Lower-division Recommended Preparation/Prerequisites: BIO 11, 12, 15; CHEM 1A, 1B; ENG 1A, 1B; MATH 7, 10; PSYC 1; SOC 1. Recommended: BIO 41, SPAN 1.

Students are advised to contact Western University of Health Sciences at (909) 623-6116 and website at www.westernu.edu for further details regarding program and admissions requirements.

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 4, 12, 14 or 17. Refer to the CSUF catalog and ASSIST at www.assist.org for additional information.

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. Refer to the CSULB catalog and ASSIST at www.assist.org for additional information.

General education requirements may be certified by following the CSU general education certification pattern outlined in this catalog.

Psychology

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts in Psychology

Lower-division Major 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.

See the CSUF catalog and ASSIST at www.assist.org for further information regarding this program.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Arts in Psychology

Lower-division Preparation: MATH 10*; PSYC 1*, 2*, 3.

*CSULB screening criteria for this impacted major which must be completed with a minimum grade of "C".

Note: The CSULB catalog states that their PSY 301 must be completed during the first semester after transfer. Students are advised to contact CSULB's Psychology Department for details. Refer to the CSULB catalog and ASSIST at www.assist.org for more information regarding GPA requirements and other admissions selection criteria for this impacted major.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Arts in Psychology

Note: 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 37 (the preceding courses must be completed to receive transfer credit for UCI's PSYCH 9A-B-C required sequence); also select one course from: PSYC 2, 7, 16, 21, 37, (30 if not taken above); and select two courses from: ANTH (1 or 2); ECON (2 or 4); PS 4; SOC 1; ***AND***

CS 1A, 4A and 4B; and *MATH (3A and 10) or a one-year statistics sequence taken after transfer.

*The MATH 3A and MATH 10 combination is unique to this UCI major and should only be taken by students who are certain they will transfer to UCI.

Bachelor of Arts in Psychology and Social Behavior

This UCI major studies human behavior in social contexts, and investigates how different social environments (e.g., the family, school, workplace, culture) affect health and human behavior. The major provides a foundation that will enable graduates to work in the private or public sectors or to do graduate work in psychology, public health, health services, social work, counseling, or education. Refer to the UCI catalog for additional information regarding this program.

Lower-division Preparation for the Major: PSYC 1 & 3 & PSYC/SOC 30 or PSYC 37. All three courses must be taken to receive credit for P11A-P11B-P11C, (combination required as equivalency for UCI's PSY BEH P9); PSYC 2; MATH 10.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to ASSIST at www.assist.org

Radio/Television/Film

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)

Applicants to this impacted upper-division major must have completed a minimum of 60 semester units with certification of G.E. requirements and a cumulative GPA of 3.00 or higher. Students interested in this major should refer to the CSULB catalog and ASSIST at www.assist.org and contact an advisor at CSULB's College of the Arts for details regarding admissions requirements and supplemental screening criteria.

Lower-division Major Requirements: ART 20 or 26, CA 30

General Education: Refer to California State University certification of general education requirements outlined in this catalog.

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

Bachelor of Arts in Cinema and Television Arts (Available Options: Electronic Media Management; Film Production; Media Theory and Criticism; Multi-Media Production; Radio Production; Screenwriting; and Television Production)

Lower-division Requirements for all Options listed: (CA 1 or JRN 1), 30.

ADD for Electronic Media Management Option: CA 40, 110 or 124.

ADD for Film Production Option: CA 40; PHOT 50.

ADD for Media Theory and Criticism Option: CA 40.

ADD for Multimedia Production Option: CA 40, 110 or 124.

ADD for Radio Production Option: CA 40, 110.

ADD for Screenwriting Option: CA 40, 110 or 124.

ADD for TV Production Option: CA 40, 124.

Admission to this program is limited, and students must initially apply for admittance into the pre-major. Students interested in this major are advised to contact a CSUN program advisor. For details regarding program requirements, refer to the CSUN catalog and ASSIST at www.assist.org

Sociology

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. The following courses can 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.

Refer to the CSUF catalog and ASSIST at www.assist.org for further details. See the CSU general education certification section for specific G.E. requirements.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Arts in Sociology

Lower-division Preparation: SOC 1, 2, and MATH 10. Recommended elective: ANTH 2.

Refer to the CSULB catalog and ASSIST at www.assist.org for additional information regarding this program.

General Education: See CSU general education certification section for specific requirements.

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. A baccalaureate degree is advisable. Students are advised to contact the School of Veterinary Medicine at UC Davis at (530) 752-1383 or website at www.vetmed.ucdavis.edu and ASSIST at www.assist.org

Lower-division Preparation: BIO 3A, 3C; CHEM 1A, 1B, 12A, 12B; PHYS (2A and 2B) or PHYS (4A and 4B and 4C).

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.

WESTERN UNIVERSITY OF HEALTH SCIENCES

Veterinary Medicine Program (DVM)

Lower-division Preparation: BIO 3A, 3C, 15, 41; CHEM 1A, 1B, 12A, 12B; ECON 2; ENG (1A and 1B);; MATH 10; PHYS 2A, 2B; SP 1; and the following course: PSYC 1 OR SOC 1.

Per Western University of Health Sciences, applicants are not required to have obtained an undergraduate degree (BA/BS), however earning a degree will likely strengthen your application. All applicants must take either the Medical College Admissions Test (MCAT) or the General Graduate Record Examination (GRE).

Animal Experience Requirements: Animal-related experience must total at least 500 hours of hands-on experience that goes beyond observation. Appropriate venues include but are not limited to: veterinary practices; animal medical environments; commercial animal production operations; regulatory animal control and humane shelters, animal entertainment (zoos, etc.), or animal research institutions.

Students are advised to contact the Western University of Health Sciences College of Veterinary Medicine for additional information regarding other admissions requirements. Phone: (909) 469-5628, and website www.westernu.edu

IMPORTANT NOTE

The preceding examples of selected articulated major programs for representative colleges were based on articulation information and resources available at the time of Saddleback College catalog publication, and are subject to change without notice as articulation is a year-round process. Students are advised to obtain a copy of the catalog for their chosen transfer college, refer to their online catalog and *ASSIST at www.assist.org, and meet regularly with a Saddleback College counselor.

The counseling staff and articulation personnel 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.

***ASSIST is the official California state-wide database listing a selection of campus-approved articulation agreements, G.E. requirements, and information on UC and CSU-transferable courses at www.assist.org**

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STUDENT RESPONSIBILITY FOR MEETING TRANSFER REQUIREMENTS

Saddleback College counselors are available to assist students with the transfer process including appropriate course selection and information regarding admissions, general education, and major preparation requirements to prepare for a successful transfer to their college or university of choice. However, it is the responsibility of each student to work with a Saddleback College counselor to decide upon an educational goal, and to maintain a long-range educational plan. Students are advised to obtain a copy of the catalog for their chosen transfer college, and/or refer to their online catalog for any updates as articulation and transfer information is subject to change.

Graduation 2009

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.

Grade **P**oint **A**verages are computed on degree applicable courses numbered 1 through 299.

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 (Title 5 §55000 Article 1)

"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.

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 or complete the appeals process. For 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.

Students who have had training or experience which they feel is equivalent to the recommended preparation may enroll in the course level appropriate with their experience. Concerns about enrolling in courses with recommended preparation should be discussed with the instructor, dean or a counselor.

Repeating Courses

(Also see Registration and Academic Regulations sections of this catalog)

A course may be repeated with the following provisions:

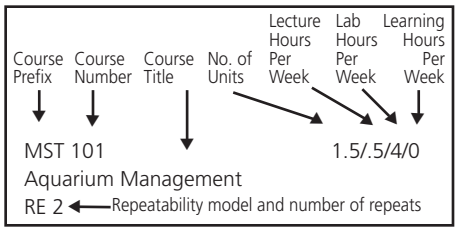
1. The number of repetitions allowed for each course is listed following the course description. Students may not exceed the number of course repetitions as determined by state regulations. Students registering in a course not identified as repeatable or repeating a course more often than permissible will be withdrawn from the course.
2. Courses not identified as (R-A), (R-E), or (R-99) may not be repeated. However, a student who has received a substandard grade of D, F, or NP (NC), may repeat the course again. If a student repeats the course and receives a satisfactory grade, then they may not repeat the course again. If the students repeats the course and receives another substandard grade they may repeat the course one additional time. Under no circumstances may a student repeat a course more than two times.
3. The maximum number of times a course may be repeated is indicated by the repeat model. Course repeats are counted beginning Fall Semester 1983.

   Models for repeating courses are:

   R-A: 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.

   R-E: 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.

   R-99: Include non-credit courses as well as courses necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. [Title 5 §55041(b)].
4. A course previously completed with a satisfactory grade may not be repeated except by Admissions Office approval of a student petition reflecting unusual circumstance.
5. Repetition is permitted, without petition, in instances when such repetition is necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. [Title 5 §55041(b)] Courses which may be repeated under this provision are included in those coded R-99.
6. Students with verified disabilities may repeat a special course as part of "an accommodation to a student's educational limitations pursuant to state and federal nondiscrimination laws." [Title 5, §56029]
7. Once a student has taken a more advanced course they cannot go back and repeat a lower-level course.
8. 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. When course repetition occurs, the permanent academic record shall be annotated in such a manner that only the most recent grade and credit earned will be used to calculate the student's grade point average.
9. Repeats in degree applicable courses are counted in determining eligibility for the associate degree. Transfer students are advised that most universities place limitations on course repetition for transfer credit.



Accounting

ACCT 1A 4/5/0/0
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, internal controls, 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, investment in stock, statement of cash flows, analyzing financial statements, and ethical issues and topics.

ACCT 1B 4/5/0/0
MANAGERIAL ACCOUNTING

Prerequisite: 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 costs, variable costing, activity-based 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.

ACCT 120 3/3/0/0
INTRODUCTION TO FINANCIAL PLANNING

Major topics include money and credit management, comprehensive insurance coverage, and analyzing and developing management tools and strategies for personal investing. Covers investing in common and preferred stock, government and corporate bonds, mutual funds, real estate, and other financial securities. Lifelong financial planning, pension, retirement, and estate planning issues are addressed. Covers the structure and operation of financial markets as well as financial and investment information gathering. The effects of achieving/not achieving financial security on psychological and physiological health is examined.

ACCT 189 .5-4/.5-4/.5-9/.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 1

ACCT 202A 3/3/0/0
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 202B 3/3/0/0
INTERMEDIATE ACCOUNTING II

Prerequisite: ACCT 1A
Recommended Preparation: ACCT 202A

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 3/3/0/0
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 214 3/3/0/0
BUSINESS ANALYSIS AND CALCULATIONS

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.

ACCT 215 3/3/0/0
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 business enterprises: 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 4/4/0/1
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. R E 3

ACCT 217 3/3/0/0
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 275 3/3/0/0
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 .5-4/.5-4/.5-9/.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 1

ACCT 421 .5/.5/0/0
INTRODUCTION TO CORPORATE STOCKS, BONDS, AND 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. Includes valuation methods, investor philosophy, and risk. R E 3

Anthropology

ANTH 1 3/3/0/0
BIOLOGICAL ANTHROPOLOGY
An introduction to the study of human evolution and human variation. Topics include evolutionary theory, molecular, Mendelian and population genetics, primate evolution and behavior, fossil evidence, human variation, and the evolution of human behavior.

ANTH 1L 1/0/3/0
BIOLOGICAL ANTHROPOLOGY LABORATORY
Prerequisite: Must be taken concurrently with ANTH 1 or within one year after completing ANTH 1
An introductory course in micro-macro evolutionary theory, primatology, and the paleoanthropological fossil record. Primary focus is on human variation and evolution. Gives students an in-depth and hands-on study of material discussed in the biological anthropology lecture class.

ANTH 2 3/3/0/0
CULTURAL ANTHROPOLOGY
An introduction to the comparative study of culture and society. Includes an examination of human universals and differences in social structure, religion, family life, and political organization in cultures around the world.

ANTH 3 3/3/0/0
CULTURE AND LANGUAGE
Recommended Preparation: ANTH 2
An examination of the complex relationship between culture and language with emphasis on both the structure of languages and the importance of language as a symbolic and practical guide to people's behavior and the understanding of each other's actions. Topics include language socialization, the origin of language, bilingualism, and non-verbal communication.

ANTH 4 3/3/0/0
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. Includes several geographic cultural areas and focuses on cultural conflicts resulting from the impact of European intrusion.

ANTH 5 3/3/0/0
ANTHROPOLOGY OF LATIN AMERICA: CULTURE, IDENTITY, AND POWER
An overview of key issues in the anthropology of Latin America, with an emphasis on cultural practices, identity formation, and the exercise of power. Major themes include the intersection of race, class and gender; violence and terror; forms of transgression; and resistance and change.

ANTH 6 3/3/0/0
GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE
Recommended Preparation: ANTH 2
Explores anthropological perspectives on issues of importance in an increasingly global society. Topics include culture contact, culture change, ethnic conflict, religion and religious diversity, development and globalization.

ANTH 7 3/3/0/0
INDIANS OF SOUTHERN CALIFORNIA
A comprehensive study of the Indians of Southern California taking into account archaeological evidence, historical aspects, and an examination of their present day status.

ANTH 8 3/3/0/0
WORLD PREHISTORY
An introduction to archaeology and the prehistory of humankind from the earliest traces of hominid evolution to emergence of state-level societies. Explores 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 3/3/0/0
INTRODUCTION TO ARCHAEOLOGY
An introduction to the study of concepts, theories, and methods of anthropological archaeology, and a review of significant data and models that contribute to knowledge of the human past. Includes a discussion of the history and interdisciplinary nature of archaeological research; dating techniques and methods of survey, excavation, and analysis; cultural resource management, and selected cultural sequences.

ANTH 10 3/3/0/0
CELTIC CULTURES
Covers a variety of topics pertaining to the Celtic cultures of the world, including material, cultural, socio-economic structures, belief systems, fine and performing arts, and contemporary history.

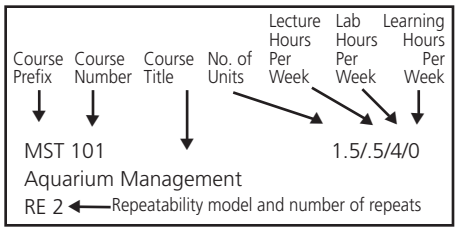
ANTH 11 3/3/0/0
MYSTERIES OF THE ANCIENT MAYA
Explores the culture and civilization of the ancient Maya as reconstructed from archaeological data. The Maya periphery will be examined from the earliest evidence of human occupation through the appearance of agriculture to the rise of urban civilizations to European conquest. The Maya world view, political organization, social organization, agriculture, art, architecture, and hieroglyphic writing will be investigated.

ANTH 13 3/3/0/0
MAGIC, WITCHCRAFT, AND RELIGION
A comparison of religious beliefs and practices from a broad range of different cultures, with emphasis placed on the practical influences of social life, human biological and psychological needs, and the environment. The course will cover myth, religious healing, witchcraft and sorcery, Shamanic practice, magic, ritual and symbol, and contemporary religious practices.

ANTH 14 3/3/0/0
INTRODUCTION TO VISUAL CULTURE
An introduction to the current issues in cultural anthropology, using film, photography, and other visual mediums in which to explore culture. Questions of perspective, cultural difference, and representation will be addressed.

ANTH 15 3/3/0/0
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 4/2/4/0
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. R E 1



ANTH 17 3/3/0/0
THE BIOLOGICAL EVOLUTION OF HUMAN NATURE

An analysis of what it is to be human based on the works of Lamarck, Darwin, Spencer and others core to the development of natural selection and biological determinism. Works through the concepts of the 20th century, including social Darwinism through the current trends in the evolutionary study of human behavior. Particular emphasis will be placed on the evolution of cooperation and the interaction of biological adaptation and culture in human biological and sociocultural diversity.

ANTH 20 3/3/0/0
INTERCULTURAL COMMUNICATION

Design181*ed to reveal how culture influences interaction patterns. Includes the theory and the process of communication with people across cultural, ethnic, and racial divides, interaction in various contexts such as interpersonal relationships, small groups, and work environments. Also listed as SP 20. Credit given in either area, not both.

ANTH 21 3/3/0/0
WOMEN, GENDER, AND CULTURE: CROSS-CULTURAL PERSPECTIVES

An anthropological approach to the cross-cultural study of women and gender. Focus is thematic and comparative, and will include topics such as gender identity, sexuality, the sexual division of labor, the politics of reproduction, childcare, and globalization.

ANTH 42 3/3/0/0
CULTURE AND FOOD

Covers a variety of topics pertaining to the anthropology of food, beginning with early primate diets. Explores how diets of modern and historical people are connected to cultural, social, economical, political, and technological forces. Examines how food choices affect personal health, lifestyle, environment, and the wider human society.

ANTH 189 .5-4/.5-4/.5-9/.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 1

ANTH 289 .5-4/.5-4/.5-9/.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 1

Apartment Maintenance Technology

AMT 200 2/1/4/0
APARTMENT MAINTENANCE TECHNOLOGY

Course is designed to help students build a career as an apartment maintenance technician. Emphasis is on preventative maintenance, troubleshooting, and problem resolution of systems and appliances commonly found in apartment homes. Topics include HVAC, plumbing, and electrical systems, appliance repair, personal and property safety, interior and exterior maintenance, and customer service and satisfaction. Course is geared toward hands-on training that gives students maximum exposure in apartment maintenance. R E 3

Applied Psychology

APSY 1 1.5/1.5/0/0
ACADEMIC PLANNING

Designed to prepare students for a successful college and transfer experience. Topics include opportunities and requirements for vocational programs and associate degrees as well as for transfer to four-year colleges and universities. Students develop an academic plan based on individual educational goals. College survival skills and issues will be discussed, including college expectations, student motivations, study skills, time management, college resources, and academic policies, Students will also learn strategies for choosing a major. The overall objective of the course is to help students identify and overcome obstacles to academic success.

APSY 140 3/3/0/0
EDUCATIONAL AND VOCATIONAL PLANNING

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.

APSY 141 3/3/0/0
PORTFOLIO DEVELOPMENT

Recommended Preparation: College level writing skills.

A guidance course designed to assist students in the development of individual portfolios as preparation for seeking credit by examination in selected courses. Focuses on conceptualization of prior learning. Successful student projects provide clearly written, well-presented, concise summaries of experiential learning, supported by documentation, which may be used by college faculty as a part of the examination process. Includes the development of a concise written personal chronology, learning narratives keyed to the objectives of the target courses, and the essential components of acceptable documentation of learning outcomes, an overview of degree and transfer requirements. Offered on a credit / no credit basis.

APSY 150 3/3/0/0
HELPING RELATIONSHIPS

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. Benefits those in the helping professions as well as any individual seeking to be more helpful in relationships with others.

APSY 151 3/3/0/0
HUMAN RELATIONSHIPS

Integrating psychological, sociological, and physiological perspectives, this course will explore the human experience and the human connections that make us whole. Aspects of human experiences examined will include the dimensions of relatedness: to the self, to the body, to significant others and to the larger social context. The environments we create in which we flourish and the spaces between us that gives us meaning will be explored. In addition, ways to enhance and grow relationships within those contexts will be described.

APSY 160 3/3/0/0
CAREER AND VOCATIONAL EXPLORATION

Focuses on process of vocational 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 1.5/1.5/0/0
LEARNING AND STUDY TECHNIQUES
Applies principles derived from cognitive/behavioral psychology to facilitate development of organizational and information-processing skills. Includes strategies for information acquisition, retention, and retrieval. Practical applications focus on decision making, goal setting, motivational techniques, time management, and didactic learning skills. Concepts are reinforced through online activities and supplemental website research. Principles and techniques are applicable in educational and professional settings.

APSY 161B 1.5/1.5/0/0
ADVANCED LEARNING, STUDY, AND TESTING TECHNIQUES
Recommended Preparation: APSY 161A
Principles of learning theory, information acquisition, retention, and retrieval are reviewed. Emphasizes test- taking strategies and test preparation related to objective and subjective tests.

APSY 164 .5-4/.5-4/.5-9/.5-9
TOPICS IN APPLIED PSYCHOLOGY
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 strategies, academic success, and college and job search, information technologies, overcoming test anxiety, and time management will be offered. No topics may be repeated.

APSY 166 1/1/1/0
THEORETICAL AND APPLIED LEADERSHIP
Learning and applying basic theoretical and practical applications of leadership focused on contemporary issues such as governance, organizational structure, and planning. Includes decision making, team building, parliamentary procedure, time management, diversity, conflict resolution, budgeting, and ethics. R E 3

Arabic

ARAB 1 5/5/0/0
ELEMENTARY ARABIC
Corequisite: ARAB 999A
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.

ARAB 2 5/5/0/0
ELEMENTARY ARABIC
Prerequisite: ARAB 1
Corequisite: ARAB 999A
Designed to further the fundamentals of communicative competence in daily spoken Arabic. 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.

ARAB 3 5/5/0/0
INTERMEDIATE ARABIC
Prerequisite: ARAB 2 or three years of high school Arabic
Corequisite: ARAB 999B
Intermediate level course focuses on fluency on reading, writing, speaking, and listening. Continues the study of Arabic culture.

ARAB 4 5/5/0/0
INTERMEDIATE ARABIC
Prerequisite: ARAB 3 or four years of high school Arabic
Corequisite: ARAB 999B
Emphasizes fluency in speaking, reading, writing, and comprehension of Arabic. Includes selected readings and discussions from the basic four genres in Arabic and Arabic-American literature, culture, and customs.

ARAB 21 3/3/0/0
INTRODUCTION TO ARABIC CULTURE
Recommended Preparation: College-level reading ability
Traces the development of the culture of Arabic-speaking nations including history, philosophy, political ideas, literature, music, art, science, geography, and customs and its influence on America and the world. Conducted in English. No prior study of the Arabic language or culture is required.

ARAB 999A .25/0/0/1
ARABIC LANGUAGE LAB
Corequisite: ARAB 1, 2
Requires concurrent enrollment in designated Elementary Arabic courses. Enhances and provides practice in skills learned in Elementary Arabic courses (formerly ARAB 999). R E 3

ARAB 999B .25/0/0/1
ARABIC LANGUAGE LAB
Corequisite: ARAB 3, 4
Requires concurrent enrollment in designated Intermediate Arabic courses. Enhances and provides practice in skills learned in Intermediate Arabic courses. R E 3

Architecture

ARCH 10 2/2/0/0
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 to introduce students to options, requirements and job possibilities in related fields.

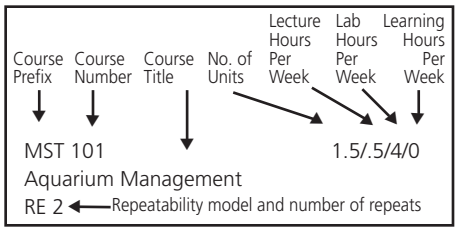
ARCH 12 3/3/0/0
HISTORY OF ARCHITECTURE
The study of the architecture and environmental achievements of man from the earliest times to the present. Presenting the important buildings, cities, sites, and civilizations of mankind.

ARCH 34 3/1/6/0
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 42 3/2/3/0
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 44 2/0/6/0
ARCHITECTURAL PRESENTATION AND RENDERING
Recommended Preparation: ARCH 42 and 124A
Delineate 2D and 3D architectural drawings for presentation. Render three drawings with color, shade, shadows, people, and trees.

ARCH 50 3/2/4/0
INTRODUCTION TO COMPUTER-AIDED DRAFTING
Recommended Preparation: ARCH 124A or DR 100
Introductory course covering the operation and application of computer-aided drafting (CAD) systems used to create, modify, store, and plot technical drawings. Also listed as DR 50. Credit given in either area, not both.



ARCH 51 3/2/4/0
COMPUTER-AIDED DRAFTING
Recommended Preparation: ARCH or DR 50
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 51. Credit given in either area, not both.

ARCH 122 2/2/0/0
ARCHITECTURAL PRACTICE
An introductory course covering the profession of architecture and the construction industry including professional relations, office procedures, and legal aspects.

ARCH 124A 4/3/3/0
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 4/3/3/0
ARCHITECTURAL DRAWING II
Recommended Preparation: ARCH 124A
Draft and organize a set of working drawings for a single-family dwelling including building code requirements, materials, and principles of wood-frame construction. Computer-aided drafting methods will be introduced and used.

ARCH 124C 4/3/3/0
ARCHITECTURAL DRAWING III
Recommended Preparation: ARCH 124B
Draft and organize an advanced set of working drawings for a steel and concrete commercial building. Computer-aided drafting methods will be used.

ARCH 126 3/3/0/0
MATERIALS AND METHODS OF CONSTRUCTION
Studies various building materials, their use and application in the structural makeup of buildings.

ARCH 132 3/1/5/0
RESIDENTIAL PLANNING, PRINCIPLES AND DESIGN
Recommended Preparation: ARCH 124A
Design a single-family dwelling. Complete a design process that considers proper site relationships, plan functions, form, structure, and materials.

ARCH 136 3/1/6/0
BASIC ARCHITECTURAL DESIGN II
Recommended Preparation: ARCH 34
Learn to design quality form and space for living and working. Through the design process consider site, function, form, structure, color, and materials, as well as social, psychological, and ergonomic factors.

ARCH 152 3/2/4/0
ADVANCED COMPUTER-AIDED DRAFTING
Recommended Preparation: ARCH or DR 50 or 51
Advanced computer-aided design and drafting with emphasis on advanced CAD knowledge and skills in the completion of technical drawings which reflect industry standards. Also listed as DR 152. Credit given in either area, not both.

ARCH 161 4/3/3/0
BLUEPRINT PLANS AND SPECIFICATION READING
Blueprint and specification reading as applied to California State codes. Includes residential, commercial, and hospital construction. R E 2

ARCH 162 3/2/4/0
CONSTRUCTION ESTIMATING
Includes 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.

ARCH 163 4/4/0/0
INTERNATIONAL 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. R E 2

ARCH 164 3/3/0/0
COMBINATION RESIDENTIAL DWELLING INSPECTION
Recommended Preparation: ARCH 163
Prepares students for the International Conference of Building Officials (ICBO) examination to become certified building inspectors. Particular emphasis given to those sections in the International Building Codes which deal with inspection and enforcement of the Plumbing, Mechanical and Electrical Codes as they relate to residential and framing. R E 2

ARCH 165 3/3/0/0
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.

ARCH 166 3/3/0/0
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.

ARCH 189 .5-4/.5-4/.5-9/.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 1

ARCH 200 1.5/1/1/0
DESIGN IN ARIZONA, RIVERSIDE AND PALM SPRINGS
Study how architecture and urban design confront context in Arizona, Riverside, and Palm Springs -- Taliesin, Biltmore, ASU, MOMA, Phoenix Library, Arcosanti, Sedona, Arizona straw-bale house and Mission Inn in Riverside, CA. R E 3

ARCH 211 3/3/0/0
CONCRETE INSPECTION
Presents technical knowledge needed by inspectors, code enforcement personnel, contractors and architects. Covers detailed concrete design, placement, mixing and testing.

ARCH 212 3/3/0/0
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.

ARCH 213 3/3/0/0
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.

ARCH 214 3/3/0/0
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.

ARCH 289 .5-4/.5-4/.5-9/.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 1

Art

ART 4 3/3/0/0
FUNDAMENTALS OF ART
Emphasizing fundamental art ideas, modes, devices, problems of organization and structure terminology, media, and the relationship of art to society.

ART 9 3/3/3/0
CERAMICS FUNDAMENTALS
Recommended Preparation: ART 80
A basic survey course covering both handbuilding and wheel throwing, with an emphasis form and design. A general survey of ceramic history is presented in context with clays clay bodies, glazes, and firing.

ART 10 3/3/3/0
CERAMICS - HANDBUILDING I
Recommended Preparation: ART 9
An introduction to clay, glaze, and handbuilding techniques with emphasis on craftsmanship and good design. A combination of ART 10, 216 or 217 may be taken a maximum of four times. R A 3

ART 11 3/3/3/0
CERAMICS - WHEEL I
Recommended Preparation: ART 9
An introduction to beginning wheel techniques with emphasis on traditional shapes and forms. A combination of ART 11, 12 or 13 may be taken a maximum of four times. R A 3

ART 12 3/3/3/0
CERAMICS - WHEEL II
Prerequisite: ART 11
A continuation of basic throwing techniques with emphasis on specific shapes and forms utilitarian and decorative. A combination of ART 11, 12 or 13 may be taken a maximum of four times. R A 3

ART 13 3/3/3/0
CERAMICS - WHEEL III
Prerequisite: ART 12
A continuation of throwing skills emphasizing contemporary decorative and design techniques. Emphasis is placed on problems related to student's individual needs. A combination of ART 11, 12 or 13 may be taken a maximum of four times. R A 3

ART 20 3/3/0/0
ART APPRECIATION
Designed to develop an understanding of historical and contemporary art forms, including examples of painting, sculpture, and architecture.

ART 21 3/3/0/0
WOMEN AND ART
Examines the history of relations between women, art, and ideology in western culture. Examines and analyzes the effects of cultural practices such as the division of labor and space in society, codes of language, the impact of new technologies, and power relations on the ways that women are represented in visual culture. Explores women's changing relation to art practice. Includes analysis of feminism in art both historically and in contemporary art forms.

ART 22 3/3/0/0
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 3/3/0/0
AFRICAN AND OCEANIC ART
Designed to develop an understanding and appreciation of the indigenous arts of Africa and the South Pacific. Studies the painting, sculpture, architectural traditions of pre-literate societies emphasizing their culture as well as artistic significance.

ART 24 3/3/0/0
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 ethnographical context, examining the formal elements of painting, sculpture, architecture, ceramics, and textiles in the context of native socio-political systems and religious beliefs.

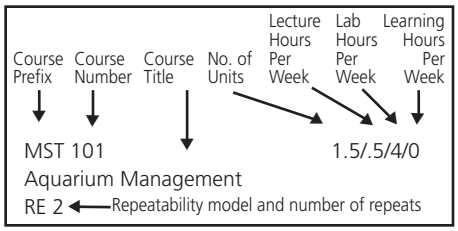
ART 25 3/3/0/0
SURVEY OF ART HISTORY: ANCIENT WORLDS TO GOTHIC
Emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives.

ART 26 3/3/0/0
SURVEY OF ART HISTORY: RENAISSANCE TO MODERN
Emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives.

ART 28 3/3/0/0
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. Includes an in-depth study of Expressionism, Surrealism, Cubism, Abstractionism, Op, Pop, and Realism.

ART 29 3/3/0/0
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.

ART 40 3/3/3/0
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.



ART 41 3/3/3/0
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 42 3/3/3/0
COLOR THEORY AND PRACTICE
Recommended Preparation: ART 40 and 80
Investigates various aspects of color, color theories, color symbolism, psychology of color, physiology of color, history of color, expressive aspects of color, nature's use of color and will include practical lab experience in mixing color, matching colors and color analysis. R E 3

ART 50 3/3/3/0
PAINTING - I
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 3/3/3/0
PAINTING - II
Prerequisite: 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 3/3/3/0
PAINTING - III
Prerequisite: 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 3/3/3/0
PAINTING FROM THE LIVE MODEL I
Recommended Preparation: ART 50, 80, and 85
Introductory course that emphasizes painting the draped and undraped life model from direct observation. Students will learn to convincingly depict and accurately represent both the male and female figure in action and in repose while studying subtleties of position and attitudes. Fundamental structural drawing concepts essential to good painting, such as the study of human anatomy, proportional sighting, measuring methods, and perspective. Value relationships and color will be emphasized in order to represent the figure in convincing painting with form, volume, and space. A combination of ART 53 and 54 may be taken a maximum of four times. R A 3

ART 54 3/3/3/0
PAINTING FROM THE LIVE MODEL II
Prerequisite: ART 53
A continuation of ART 53 which emphasizes painting the draped and undraped male and female figure from direct observation. The primary focus is to develop a more sensitive and creative approach to painting from life. The student will continue to develop the basic skills in representing and interpreting the live model. A variety of media will be explored. A combination of ART 53 and 54 may be taken a maximum of four times. R A 3

ART 57 3/3/3/0
WATERCOLOR I
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 combination of ART 57, 58 and 59 may be taken a maximum of four times. R A 3

ART 58 3/3/3/0
WATERCOLOR II
Prerequisite: 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 combination of ART 57, 58 and 59 may be taken a maximum of four times. R A 3

ART 59 3/3/3/0
WATERCOLOR III
Prerequisite: ART 58
Emphasizes advanced techniques of transparent media, including use of collage. A combination of ART 57, 58, and 59 may be taken a maximum of four times. R A 3

ART 60 3/3/3/0
INTAGLIO (ETCHING) AND RELIEF I
Recommended Preparation: ART 80
Designed to introduce students to a variety of approaches involving Relief and Intaglio areas of printmaking. Basic processes of etching, collograph, drypoint 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 3/3/3/0
INTAGLIO (ETCHING) AND RELIEF II
Prerequisite: ART 60
Designed 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, and 62 may be taken a maximum of four times. R A 3

ART 62 3/3/3/0
INTAGLIO (ETCHING) AND RELIEF III
Prerequisite: ART 61
Designed to emphasis advanced skills in the process of Relief and Intaglio areas of printmaking. Edition printing (color), advanced technical skills of multiplate printing, color printing, and continued development of personal imagery and unique style. Students will incorporate basic techniques learned in prior courses to develop multicolor, multiplate registration, and printing techniques. A combination of ART 60, 61 and 62 may be taken a maximum of four times. R A 3

ART 63 3/2/3/0
INTRODUCTION TO SCREEN PRINTING
Principles, basic methods and techniques of preparing handcut and photographic stencils, printing techniques, simple color separation, and equipment and material handling. Care, use and safety precautions in operating and cleaning the silk-screen unit. Also listed as GC 63. Credit given in either area, not both. R E 3

ART 70 3/3/3/0
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. A combination of ART 70, 71 and 72 may be taken a maximum of four times. R A 3

ART 71 3/3/3/0
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, and 72 may be taken a maximum of four times. R A 3

ART 72 3/3/3/0
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, and 72 may be taken a maximum of four times. R A 3

ART 78 3/3/3/0
BEGINNING LIFE SCULPTURE
Sculpting from a live model using clay with emphasis placed on gesture, composition, scale, proportion as related to representational forms. A combination of ART 78 and 79 may be taken a maximum of four times. R A 3

ART 79 3/3/3/0
ADVANCED LIFE SCULPTURE
Recommended Preparation: ART 78
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 and 79 may be taken a maximum of four times. R A 3

ART 80 3/3/3/0
DRAWING I
Emphasizes the development of perceptual and technical skills in drawing. Includes 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 3/3/3/0
DRAWING II
Prerequisite: 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 3/3/3/0
DRAWING III
Prerequisite: 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 3/3/3/0
DRAWING FROM THE LIVE MODEL I
Recommended Preparation: ART 80
Emphasizes drawing from 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 86 3/3/3/0
DRAWING FROM THE LIVE MODEL II
Prerequisite: ART 85
Depicts anatomy by drawing the human form. Includes proportion, perspective, and the expressive extension into other style and media directions. A combination of ART 85, 86, and 87 may be taken a maximum of four times. R A 3

ART 87 3/3/3/0
DRAWING FROM THE LIVE MODEL III
Prerequisite: 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 3/3/3/0
ART GALLERY/DISPLAY AND EXHIBITION
Designed to introduce students to a variety of aspects in working and running a non-profit/educational art gallery. Students will participate in the planning of shows along with the practical experience of preparing and installing shows in the Saddleback College Art Gallery. Students will visit local galleries and museums to further enhance their ideas of the functions of an art gallery. This is an open-entry/open-exit class. R E 3

ART 120 3/3/0/0
TOUR-ART HISTORY/APPRECIATION
Designed to give students the opportunity to study visual cultural productions on site. Its content stresses the relationship between art and its most significant institutions of reception, museums and galleries. R E 3

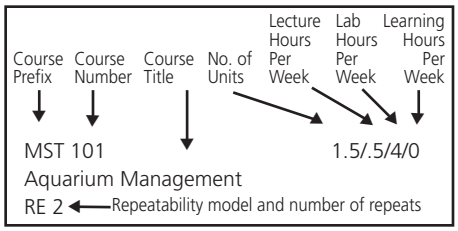
ART 133 3/3/3/0
JEWELRY I
Recommended Preparation: ART 40
A studio course emphasizing basic, traditional, and contemporary concepts, processes, and techniques in the making of jewelry, including soldering, stone setting, and lost wax casting. A combination of ART 133 and 134 may be taken a maximum of four times. R A 3

ART 134 3/3/3/0
JEWELRY II
Prerequisite: ART 133
A studio course emphasizing advanced processes and techniques of jewelry making, including forging, chasing and repousse. A combination of ART 133 and 134 may be taken a maximum of four times R A 3

ART 140 3/2/3/0
BEGINNING GRAPHIC DESIGN
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. Designed to convey current concepts in the graphic design field. Also listed as GD 140. Credit given in either area, not both.

ART 141 3/2/3/0
GRAPHIC RENDERING TECHNIQUES
The exploration of two-dimensional media for graphics. Projects encourage exploration and control in a variety of design applications. Recognition and choice of techniques in translating ideas into renderings. Also listed as GD 141. Credit given in either area, not both. R E 3

ART 142 3/2/3/0
PACKAGE DESIGN
Introduction to traditional and computer-generated construction and layout of three-dimensional packaging, including labels, overwraps, printed cartons and point-of- purchase displays. Also listed as GD 142. Credit given in either area, not both.



ART 144 3/2/3/0
TYPOGRAPHY
Basic principles of typography explored. Course is intended to provide the students with practical, formal, and communicative typographic skills. Instruction focuses on understanding the practical and analytical application of typography in graphic design and its critical evaluation. Emphasis is on developing strong typographic skills in students. Instruction focuses on problem solving and technical training while at the same time nurturing intuition and creativity. Also listed as GD 144. Credit given in either area, not both.

ART 145 3/2/3/0
GRAPHIC ILLUSTRATION
Develop illustrations 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 select mediums. Also listed as GD 145. Credit given in either area, not both.

ART 175 3/3/3/0
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 .5-4/.5-4/.5-9/.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 1

ART 216 3/3/3/0
CERAMICS - HANDBUILDING II
Prerequisite: ART 10
Emphasizing a continuation of basic handbuilding techniques. The focus is on developing the individual's skills in design, fabrication, and finishing. Form and function are stressed. A combination of ART 10, 216 or 217 may be taken a maximum of four times. R A 3

ART 217 3/3/3/0
CERAMICS - HANDBUILDING III
Prerequisite: ART 216
A continuation of handbuilding techniques and skills with emphasis placed on individualized student projects. The focus will be on contemporary issues of scale, design, and concept. A combination of ART 10, 216 or 217 may be taken a maximum of four times. R A 3

ART 240 3/2/3/0
INTERMEDIATE GRAPHIC DESIGN
Study of design concepts to explore organization of visual elements to graphics. Studio work will include layout and production of designed formats (magazine ads, logos, T.V., story board, newspaper ads) and conceptualization techniques in the graphic-design field, as well as portfolio preparation. Also listed as GD 240. Credit given in either area, not both.

ART 250 3/3/3/0
PLEIN AIR LANDSCAPE PAINTING
Recommended Preparation: ART 50
Explores the process of painting out-of-doors. Includes the study of the history and tradition of this genre, painting mechanics, angles and consequent values, design, light, aerial perspective, linear perspective, color natural symbols, composition, main line and theme. R E 3

ART 289 .5-4/.5-4/.5-9/.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 1

Astronomy

ASTR 20 3/3/0/0
GENERAL ASTRONOMY
An introductory astronomy course covering 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 3/3/0/0
THE SOLAR SYSTEM
A 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 GEOL 21. Credit given in either area, not both.

ASTR 25 3/2/3/0
OBSERVATIONAL ASTRONOMY
Recommended Preparation: ASTR 20
An introductory observational astronomy course covering 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. Field trips required to fulfill the course objectives.

ASTR 45 3/3/0/0
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 state 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 2/1/3/0
INTRO 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. Field trips may be required to fulfill the objectives of this class.

ASTR 189 .5-4/.5-4/.5-9/.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 1

Automotive

AUTO 100 3/3/1/0
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 3/2/2/0
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 3/2/2/0
AUTOMOTIVE ENGINE PERFORMANCE/ELECTRONICS AND IGNITION
Recommended Preparation: AUTO 100 and 207
Operating principles, troubleshooting techniques, and repair procedures for automotive engine performance systems. The emphasis is battery, charging and ignition systems. Demonstrated lectures and practical experience in the laboratory using modern testing equipment, oscilloscopes, and other diagnostic equipment on "live" vehicles. R E 3

AUTO 103 3/2/2/0
AUTOMOTIVE ENGINE PERFORMANCE / FUEL AND EMISSION SYSTEMS
Recommended Preparation: AUTO 100 and 207
Operating principles, troubleshooting techniques and repair procedures for automotive engine performance systems. The emphasis is fuel and engine emission control systems. Demonstrated lectures and practical experience in the laboratory using modern testing equipment, oscilloscopes, and other diagnostic equipment on "live" vehicles. R E 3

AUTO 104A 5/3/5/0
AUTOMOTIVE ENGINES
Recommended Preparation: AUTO 100, 207
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 covering 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 5/3/5/0
AUTOMOTIVE ENGINES
Prerequisite: AUTO 104A
Recommended Preparation: AUTO 100, 207
Practical experience in the 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. The complete engine will be assembled in the lab. R E 3

AUTO 105 3/2/2/0
AUTOMOTIVE POWER TRAIN
Recommended Preparation: AUTO 100
Operating principles, 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 3/3/1/0
AUTOMOTIVE SUSPENSION AND ALIGNMENT
Recommended Preparation: AUTO 100
Operating principles, design, diagnosis and overhaul of chassis suspension systems. Demonstrated lectures and practical experience in the laboratory performing suspension diagnosis and repair. Students will perform two and four wheel alignments using modern alignment equipment on "live" vehicles. R E 3

AUTO 106B 3/3/1/0
AUTOMOTIVE BRAKE SYSTEMS
Recommended Preparation: AUTO 100
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 the student for the State of California brake inspection license. R E 3

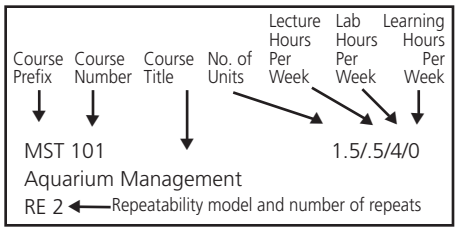
AUTO 107 3/2/2/0
AUTOMATIC TRANSMISSION
Recommended Preparation: AUTO 100
Operating principles, design, overhaul, adjustment, and servicing of FWD and RWD automatic transmissions. Trouble shooting techniques utilizing scan tools for computer-controlled transmission diagnosis. Demonstrated lectures and laboratory work on automatic transmissions. R E 3

AUTO 108 3/2/2/0
AUTOMOTIVE AIR CONDITIONING
Recommended Preparation: AUTO 100
Operating principles, design, diagnosis of vehicle heating and air conditioning systems. Emphasis is placed on diagnosis and troubleshooting of "live" vehicles. Students are required to obtain the Section 609 certification for lab activities. R E 3

AUTO 109 5/4/2/0
CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE
Recommended Preparation: AUTO 100 and completion of or current enrollment in AUTO 102, 103, or 202
This Bureau of Automotive Repair certified course meets one of the requirements for taking the California B.A.R. licensed smog check EA technician examination. Course content will include the study of proper vehicle inspection procedures, testing, diagnosis, and certification procedures following the current laws and regulations. For state certification, students must meet Bureau of Automotive Repair requirements. R E 1

AUTO 189 .5-4/.5-4/.5-9/.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 1

AUTO 200 1/1/1/0
ENHANCED AREA CLEAN AIR CAR COURSE
Recommended Preparation: AUTO 100 and 109
This Bureau of Automotive Repair certified course meets one of the requirements for taking the State of California B.A.R. licensed smog check EA technician examination. Course content will include ASM emission inspection system operation (Dyno), digital storage oscilloscope theory, operation and diagnostics. For state certification, students must meet Bureau of Automotive Repair requirements. R E 3



AUTO 201 3/2/2/0
ADVANCED AUTOMOTIVE ELECTRICAL
Prerequisite: AUTO 101
Recommended Preparation: AUTO 100
Advanced automotive electrical/electronic systems cover strategy based diagnostic procedures for troubleshooting lighting, instrumentation, engine and body controls and other accessory circuits. Air bag theory, respective testing, diagnostic procedures, and fuel system operation are included. R E 3

AUTO 202 3/2/2/0
ADVANCED ENGINE PERFORMANCE DIAGNOSIS
Recommended Preparation: AUTO 100, 102 or 103
Explores advanced engine and driveline performance diagnosis using the chassis dynamometer, digital storage oscilloscope, five-gas analyzer and other related test equipment on "live vehicles" to diagnose vehicle performance. R E 3

AUTO 204 3/2/2/0
HIGH PERFORMANCE ENGINE BLUEPRINTING
Prerequisite: Completion of or concurrent enrollment in AUTO 104A or 104B
Recommended Preparation: AUTO 100 or 207
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 airflow bench techniques. R E 3

AUTO 205 .5/.5/1/0
ADVANCED SMOG UPDATE TRAINING
Recommended Preparation: AUTO 100, 102, 103, 109
California B.A.R. approved update course covers the required emission update program. In-depth program covering current laws and regulations, ASM testing, and emission diagnostics used to inspect, test and repair late model vehicles. R E 99

AUTO 207 3/3/0/0
AUTOMOTIVE ENGINEERING FUNDAMENTALS
Recommended Preparation: AUTO 100 and MATH 251
Introduction to the science and design of the modern automobile. Basic physics and related mathematical concepts are explained using the automobile as an example. In class demonstrations and student participation provide the connection between theory and real world applications. R E 3

AUTO 220 3/2/2/0
ALTERNATIVE PROPULSION SYSTEMS
Recommended Preparation: AUTO 100 and 207
Study alternative propulsion systems including CNG, propane, diesel, hybrid and electric vehicle technology. Laboratory exercises include safety, operation and maintenance of hybrid, electrical and alternative propulsion vehicle systems. R E 3

AUTO 226 2/2/0/0
AUTO SERVICE CONSULTANT
Recommended Preparation: AUTO 100
Focuses on Automotive Service Consultants and their relationship to the processing of work within the automotive service facility. The actions, procedures and interaction with all personnel and their value will be discussed in detail. Content is aligned with tasks identified by Automotive Service Excellence (ASE). R E 3

AUTO 227 3/3/0/0
AUTOMOTIVE SERVICE MANAGEMENT
Recommended Preparation: AUTO 100
Introduction to an automotive service department as it pertains to management. Skill development for operating an automotive business, including service consulting, service management and communication practices. Instruction in federal, state and local regulations for operating a service department. R E 1

AUTO 228 1/1/1/0
ADVANCED VEHICLE PERFORMANCE
Recommended Preparation: AUTO 100, 102, 103, 202, 207
Advanced engine and driveline performance diagnosis will be explored. The course will include advanced diagnostic techniques using the Chassis Dyno on "live" vehicles. R E 3

AUTO 229 3/2.5/1.5/0
DIESEL TECHNOLOGY
Recommended Preparation: AUTO 100
Diesel technology covers the design, construction, operation, diagnosis, service, and repair of both mobile and stationary diesel engines. The theory, operation, service and diagnosis of diesel engines, engine control computers, fuel management systems, and emission control systems are covered in detail. R E 2

AUTO 289 .5-4/.5-4/.5-9/.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 1

Biology

BIO 3A 5/3/6/0
GENERAL BIOLOGY I
Prerequisite: CHEM 1A
Presents the principles of life and life processes with an emphasis on cellular chemistry, cellular structure, cellular energetics, evolution, molecular biology, genetics, and ecology of living organisms. Field trips may be required to fulfill the objectives of the course.

BIO 3B 5/3/6/0
GENERAL BIOLOGY II
Prerequisite: BIO 3A
Builds upon BIO 3A with emphasis on the origins of life, plant and animal structure and physiology, evolutionary relationships of taxonomic groups, and ecology. Field trips will be required to fulfill the objectives of the course.

BIO 3C 5/3/6/0
BIOCHEMISTRY AND MOLECULAR BIOLOGY
Prerequisite: CHEM 12A and BIO 3A
An introduction to biochemistry and molecular biology. Included are discussions of biological macromolecules, energy production, metabolic pathways and regulation, genetic code and genomics, DNA replication, transcription and RNA processing, translation, and gene regulation. Laboratory activities will include use of visible and UV spectroscopy, chromatography, cell fractionation and ultracentrifugation, protein purification, electrophoresis, and recombinant DNA methods. 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 4/2/6/0
HUMAN ANATOMY
Prerequisite: BIO 20 or one year of high school biology with a grade of "C" or better
A basic course in the structure of the human body using all systems approach. Emphasis is placed on the relationship between structure and function. Laboratory emphasis on use of the light microscope, histology, and gross anatomy, including cat dissection. Designed for biology majors and health pre-professionals.

BIO 12 4/3/3/0
HUMAN PHYSIOLOGY
Prerequisite: CHEM 108 or one year of high school chemistry with a grade of "C" or better and BIO 11
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 5/3/6/0
GENERAL MICROBIOLOGY
Prerequisite: BIO 20 or one year of high school biology with a grade of "C" or better
Recommended Preparation: 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. Includes laboratory techniques and methods.

BIO 19 4/3/3/0
MARINE BIOLOGY
Recommended Preparation: College-level biology course (BIO 20)
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 given in either area, not both.

BIO 20 4/3/3/0
INTRODUCTION TO BIOLOGY
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 40 3/3/0/0
MODERN THEORIES OF EVOLUTION
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 3/3/0/0
HUMAN GENETICS
Prerequisite: BIO 20
Focuses on the processes of DNA replication, DNA recombination, gene expression, and mutation in diploid organisms. Includes a survey of human genetics and genetic disorders. Field trips may be required to fulfill the objectives of this course.

BIO 43 3/3/0/0
ANIMAL BEHAVIOR
Recommended Preparation: BIO 20
An analysis of the genetic, chemical, environmental, and experimental determinants of animal behavior. Discussions of gross manifestations and mechanisms of animal behavior will also be included.

BIO 45 3/3/0/0
BIOLOGY OF HUMAN DISEASE
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 112 3/3/0/0
PATHOPHYSIOLOGY
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 113 4/3/3/0
HUMAN ANATOMY AND PHYSIOLOGY
Examines 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 175 1/.5/1.5/0
BIOLOGY FIELD STUDIES: EASTERN SIERRA MOUNTAINS
A study of the flora and fauna and natural history of selected sites within the Eastern Sierra Mountains and adjacent areas.

BIO 176 2/1/3/0
BIOLOGY FIELD STUDIES: SAGUARO NATIONAL PARK
A study of plants and animals located in Saguaro National Park. Includes community composition, soils, water, desert ecosystems, desert origin and development, plant and animal behavior and adaptations to xerophytic climates, symbiosis, and desert ecosystem dynamics and succession.

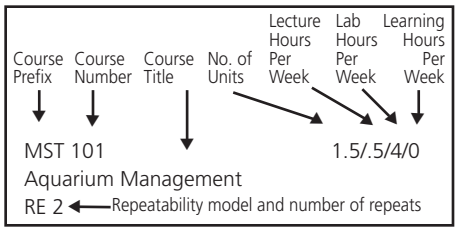
BIO 179 1/.5/1.5/0
BIOLOGY FIELD STUDIES: COLORADO RIVER
A study of the flora and fauna and natural history of selected sites within the Colorado River and adjacent areas.

BIO 181 1/.5/1.5/0
BIOLOGY FIELD STUDY: DEATH VALLEY NATIONAL MONUMENT
A study of the plants and animals and the natural history of Death Valley National Park and adjacent areas.

BIO 186 1/.5/1.5/0
BIOLOGY FIELD STUDIES: GRAND CANYON NATIONAL PARK
A study of the flora and fauna and natural history of selected sites within Grand Canyon National Park and adjacent areas.

BIO 188 1/.5/1.5/0
BIOLOGY FIELD STUDIES: YOSEMITE NATIONAL PARK
A study of the flora and fauna and natural history of selected sites within Yosemite National Park and adjacent areas.

BIO 189 .5-4/.5-4/.5-9/.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 1



BIO 191 1/.5/1.5/0
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.

BIO 194 1/.5/1.5/0
BIOLOGY FIELD STUDIES: CALIFORNIA COASTLINE
A study of the ecology of the California coastline environments. Includes origin of estuaries, morphology and parameters of estuarine basins, estuarine shores and substrates, and flora and fauna identification.

BIO 201 2/2/0/0
ANATOMY AND PHYSIOLOGY FOR PARAMEDICS
A human anatomy and physiology survey course designed specifically for the EMS and paramedic students. A review of the basic human systems to prepare the student for course work in the Paramedic program. Not intended for transfer students or the Saddleback College Nursing Program.

BIO 220 4/3/3/0
INTRODUCTION TO BIOTECHNOLOGY
Recommended Preparation: MATH 251 and ENG 1A
A general examination of biology as it relates to the field of Biotechnology. Topics that are emphasized include enzymatic processes common in prokaryotic and eutaryotic cells, chemistry of organic macromolecules (protein, nucleic acids, carbohydrates, and lipids), cellular and molecular biology, basic immunology, and genetics with an emphasis on gene expression and genetic engineering. The laboratory addresses basic skills and techniques common to the biotechnology industry including measuring activity and quantification of proteins, growth and manipulation of bacteria, genetic engineering, and methods utilizing antibodies.

BIO 221 4/2/6/0
APPLIED BIOTECHNOLOGY I
Prerequisite: BIO 20 or 220
Recommended Preparation: MATH 251 and ENG 1A
Students learn entry-level skills common in biotechnology industry such as: aseptic techniques, laboratory safety, and preparation of biological media and solutions. Students also learn about microbial growth, solutions, buffers, separation of cellular components, and macromolecules.

BIO 222 4/2/6/0
APPLIED BIOTECHNOLOGY II
Prerequisite: BIO 221
In this advanced biotechnology training course, students will learn about transformation, restriction analysis of DNA, protein analysis, and procedures using antibodies. In the lab, students practice current techniques used in the biotechnology industry.

BIO 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Business

BUS 1 3/3/0/0
INTRODUCTION TO BUSINESS
Survey course provides global awareness of functions of business in society. 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 global economics and its effect on people.

BUS 12 3/3/0/0
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, property agency and employment, product liability, constitutional issues and bankruptcy.

BUS 14 3/3/0/0
LEGAL ENVIRONMENT OF BUSINESS
Focuses on the legal system as it affects the business environment. Introduces the student to the history, sources, and creation of law and its impact on business and society. The student will critically analyze both legal consequences and the law's affect on social and ethical responsibilities. Emphasis is on law as it pertains to the court system, dispute resolution, contracts, torts, product liability, crimes, intellectual property, real and personal property, Internet, agency and employment, business entities, regulation of American business, bankruptcy, international business, and protection of the environment.

BUS 31 3/2/3/0
TEXTILES
Fabric selection and care considering fibers, yarns, weaves knits, finishes, and color. Emphasis is on properties of fibers as related to their end use and consumer understanding of fabric performance. Also listed as FASH 31. Credit given in either area, not both.

BUS 102 3/3/0/1
ORAL BUSINESS TECHNIQUES
Create and deliver business-oriented presentations using presentation software. Includes locating, evaluating, synthesizing, outlining, and reporting on business communication situations using computer databases. Includes interpersonal communication, teamwork and leadership skills, interviewing, business etiquette, and the reduction of communication anxiety. Students will improve their listening skills as well as their oral and nonverbal competencies necessary for workplace success.

BUS 103 3/3/0/0
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.

BUS 104 3/3/0/1
BUSINESS COMMUNICATION
Prerequisite: BUS 103 or ENG 1A
Recommended Preparation: CIM 230
Presents the principles and styles of effective written business communications. Analyze business case studies to create appropriate documents and compose business letters, memorandums, reports, and employment-related documents. Develop planning, organizing, and outlining skills as well as editing proficiency. Improve ethical and cultural sensitivity, grammar skills, and writing style. Participate in team and online activities.

BUS 116 3/3/0/0
PERSONAL LAW
Law for the individual and family for lifelong 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, credit reports, identity theft, and dispute resolution. Emphasis is on preventive law to minimize stress associated with legal problems and achieve optimal physical and mental health.

BUS 120 3/3/0/0
ESSENTIALS OF BUSINESS MANAGEMENT
Uses an active learning approach to cover all levels of management concepts. Develops strategies to develop and sharpen skills in planning, leading, controlling, and decision-making. Useful for supervision, continuous quality improvement, and project management.

BUS 125 3/3/0/0
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, customer service, and project management.

BUS 135 3/3/0/0
ELEMENTS OF MARKETING
Introduction to the classic and contemporary marketing functions related to organizations and the economy. Course will provide analysis of marketing strategies necessary to develop and market products and services by applying various marketing concepts and new technologies. Integrated case study analysis stimulates problem-solving, pricing, distribution, promotion, and uses of new technologies, including e-commerce.

BUS 136 3/3/0/0
PRINCIPLES OF RETAILING
Study of merchandising, marketing, management, staffing, buying, pricing, transaction/stock control, location, layout, service, consumer behavior and service, and current problems and trends, as they apply to the retailing of goods and services.

BUS 137 3/3/0/0
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. (ID Regional Program #ID 160)

BUS 138 3/3/0/0
ADVERTISING
Contemporary advertising for profit and non-profit organizations. Surveys 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 given in either area, not both.

BUS 143 3/3/0/0
FASHION BUYING AND MERCHANDISING
Study the principles and techniques of merchandising pertinent to the fashion industry including buying fashion, methods of merchandising fashion, and merchandise control. Also listed as FASH 143. Credit given in either area, not both.

BUS 145 1/1/0/0
INTERNSHIP
Corequisite: CWE 180
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 given in either area, not both.

BUS 147 3/2/2/0
SPECIAL EVENTS COORDINATION AND PROMOTION
Emphasis is on a student-produced fashion event. The course will provide training in fashion promotion and coordination, retail sales, advertising, and merchandising. Also listed as FASH 147. Credit given in either area, not both. R E 3

BUS 148 3/2/2/0
VISUAL MERCHANDISING
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 given in either area, not both. R E 3

BUS 150 3/3/0/0
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.

BUS 160 3/3/0/0
ENTREPRENEURSHIP
Practical hands-on business course designed for students interested in starting their own business or for the new business owner. The course focuses on the legal steps necessary to create and maintain a sole proprietorship, general partnership, limited liability company, closely held corporation or other business organization appropriate to the business. Students will evaluate the benefits and risks of business ownership and learn skills to manage and market the business from an entrepreneurial prospective. Students will create a business plan and develop strategies to secure financing.

BUS 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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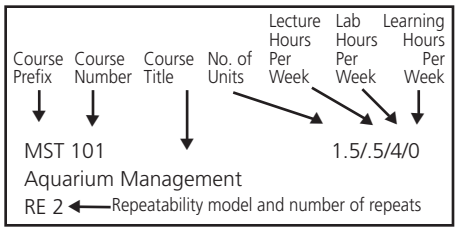
BUS 195 1/1/0/0
INTERNSHIP
Corequisite: CWE 180
Offered specifically to business and computer and information management students with entry-level skills. Designed to provide a realistic training environment in which the student will refine technological, procedural, teamwork, communication, problem solving, and interpersonal skills. Career goals, analysis and application, interviewing, and resume writing will be emphasized. R E 3



BUS 221 3/3/0/0
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. Includes 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 235 3/3/0/0
ENTREPRENEURIAL ACCOUNTING

Basic accounting course for the entrepreneur that provides the participant with financial statement analysis, taxes and the implications to decision-making. Assist in determining financing needs and options to facilitate continued operations as well as future growth. Assist in determining the appropriate computer hardware and software system necessary for the accounting needs of the business. The student will learn the necessary skills to use accounting software to set up account and manage the financial aspect of the business.

BUS 236 3/3/0/0
EMPLOYMENT LAW

An in-depth study of the law and procedures for anyone who manages employees. The focus is on the practical legal aspects of managing human resources. The topics include the hiring and termination process, employee reviews, compensation and benefits, taxes, rights to privacy, employee contracts and handbook, unions, and legislation affecting the employer and employee relationship.

BUS 237 1.5/1.5/0/0
FINANCING THE ENTREPRENEURIAL BUSINESS

Designed for entrepreneurs as an introduction to the world of equity business financing for new and existing businesses, better known as venture capital. Key topics include ways to find money, properly managing your capital, types of equity investors, basic guidelines of investment, how to prepare for equity financing, principles and content of term sheets, methods used to determine valuation of companies, and types of exit strategies. R E 3

BUS 260 3/3/0/0
STRATEGIES FOR EXPORTING AND IMPORTING

An overview of various aspects of exporting and importing a product or service. Includes essential terms and techniques, roles of United States government organizations and agencies, customs brokers, duty rate, basic laws and regulations affecting exports and imports, access, currency exchange, financing, letters of credit, documentation, and country and commodity trade patterns.

BUS 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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BUS 290 1/1/0/0
DYNAMICS OF THE JOB SEARCH

An intensive practical course designed to equip participants with basic job search skills necessary to obtain employment. Job search techniques cover occupations from entry-level to high-end executive positions. Emphasis is made on interview demonstrations and techniques, resume writing, and job hunting. Career development is also covered such as advancement, career-change strategies, interpersonal communication, and support systems. R E 3

BUS 292 1.5/1.5/0/0
PATENTS AND TRADE SECRETS

Designed for the business person who desires to legally protect tangible and intangible assets, such as proprietary business information, and other commercial innovations including patentable inventions. The student will develop a trade secret business plan and examine the application process for securing patent protection.

BUS 293 1.5/1.5/0/0
COPYRIGHT AND TRADEMARK

Designed for a person who desires to secure legal protection for copyrighted material and trademarks. Students will examine the nature of copyrights and trademarks, eligibility, application and registration process, agreement relating to marketplace development as well as study the various methods of legal recourse to enforce their legal rights.

Chemistry

CHEM 1A 5/3/6/0
GENERAL CHEMISTRY

Prerequisite: CHEM 3 or placement through the Chemistry Challenge Exam
Corequisite: CHEM 106
Recommended Preparation: MATH 124 and PHYS 20

An introduction to the principles of chemistry. Topics include: atomic and molecular structure, bonding, nomenclature, formulas, equations, stoichiometry, thermochemistry, gases, liquids, solids and solutions.

CHEM 1B 5/3/6/0
GENERAL CHEMISTRY

Prerequisite: CHEM 1A

Includes thermodynamics, equilibria, kinetics, acids and bases, oxidation-reduction, electrochemistry, coordination chemistry, and qualitative analysis.

CHEM 3 4/3/3/0
FUNDAMENTAL CHEMISTRY

Prerequisite: 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, thermochemistry, atomic and molecular structure, bonding, gases, solutions, equilibrium, acids, and bases.

CHEM 12A 5/3/6/0
ORGANIC CHEMISTRY

Prerequisite: CHEM 1B

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 compound types, and spectroscopic methods.

CHEM 12B 5/3/6/0
ORGANIC CHEMISTRY
Prerequisite: CHEM 12A
A continuation of CHEM 12A. Topics include preparations and reactions of certain organic compound types, polynuclear and heterocyclic compounds, polymers, lipids, carbohydrates, amino acids, proteins and biochemical processes.

CHEM 106 2/2/0/0
BASICS OF CHEMISTRY
Corequisite: CHEM 1A
Consists of quiz/discussion/problem-solving/drill sessions. Designed to help students succeed in their study of general chemistry.

CHEM 108 4/3/3/0
INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY
A study of inorganic, organic, and biochemistry for health pre-professionals and non-science majors. Ideal for students planning to enter nursing and dental hygiene programs. Designed as the first chemistry course to assist students in biology and health-related professions. The focus is on the biochemistry of the human body. Health, nutrition, and basic laboratory techniques are included.

CHEM 120 4/3/3/0
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 given in either area, not both.

CHEM 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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CHEM 299 1/1/0/0
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. R E 3

Child Development

CD 7 3/3/0/0
DEVELOPMENTAL PSYCHOLOGY: CHILD GROWTH AND DEVELOPMENT
Recommended Preparation: ENG 200 and 340
Examines the major physical, social, emotional, and cognitive developmental milestones for children, both typical and atypical, from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. Students will apply developmental theory and investigative research methods to the observation children in several settings, evaluate individual differences and analyze characteristics of development at various stages. Also listed as PSYC 7: Credit given in either area, not both (formerly listed as CDES 7). DS 1

CD 15 3/3/0/0
CHILD, FAMILY, AND COMMUNITY
Recommended Preparation: ENG 200 and 340
An examination of the developing child in a societal context focusing on the interrelationship of family, school and community with an emphasis on historical, cultural, and political factors that influence the process of socialization including identity development. Highlights the importance of respectful, reciprocal relationships that support and empower families. Major theoretical perspectives will be examined. Also listed as SOC 15. Credit given in either area, not both (formerly listed as CDES 15). DS2

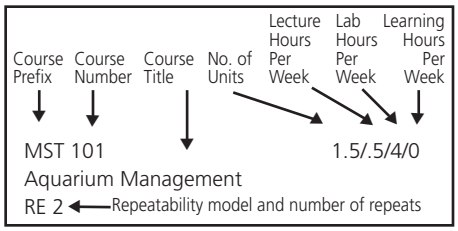
CD 101 3/3/0/0
PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN
Recommended Preparation: ENG 200 and 340 and CD 7/PSYC 7
An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity (formerly CDES 101). DS3

CD 110 3/2/2/0
INTRODUCTION TO EARLY CHILDHOOD CURRICULUM
Limitation: TB results on file in Student Health Center
Recommended Preparation: ENG 200, 340, and CD 7/PSYC 7
An overview of appropriate curriculum and environments for young children including content areas and popular models of curriculum. Students will explore the teacher's role in supporting development and fostering play based learning for all young children by participating weekly at an introductory level with children ages 0-6 and using observation, implementation and assessment strategies in key areas including but not limited to: Language, literacy social/emotional, sensory, art, creativity, math and science. (formerly CDES 110). DS3

CD 111 3/3/0/0
CHILD GUIDANCE AND COMMUNICATION
Recommended Preparation: ENG 200 and 340
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 (formerly CDES 111). DS3

CD 112 3/3/0/0
HEALTH, SAFETY, AND NUTRITION
Recommended Preparation: CD 101, 110, ENG 200 and 340, CD 7/ PSYC 7
Introduces the key components of physical and mental health and safety for children and adults including nutrition, disease prevention, food safety management. Strategies for collaboration with families and health care professionals, laws and regulations pertaining to work with children, and methods for teaching concepts to children will be included. Students will be responsible for providing proof of current adult and pediatric first aid and CPR certification (formerly CDES 112). DS7

CD 113 3/3/0/0
MATH AND SCIENCE IN EARLY CHILDHOOD
Recommended Preparation: CD 101, 110, ENG 200, 340 and CD/PSYC 7
Presents current research and best practices for teaching math and science in early childhood settings serving children ages 0-5. Material selection, integrated activities, teaching strategies environments, and assessment methods will be covered. Does not meet general education requirements in natural science or mathematics (formerly CDES 113). DS3



CD 114 3/3/0/0
CREATIVE AND DRAMATIC ARTS IN EARLY CHILDHOOD
Recommended Preparation: CD 101, 110, ENG 200 and 340, CD 7/ PSYC 7
Presents theoretical foundations and developmentally appropriate practices for designing supportive environments, selecting appropriate materials, and developing, presenting, and evaluating curriculum in the areas of visual and performing arts for use with children ages 0-5 (formerly CDES 114). DS3

CD 115 3/3/0/0
LITERACY IN EARLY CHILDHOOD
Recommended Preparation: CD 101, 110, ENG 200 and 340, CD 7/ PSYC 7
Presents current research and best practices for teaching literacy in early childhood settings serving children ages 0-5. Material selection, and integrated activities, indoor and outdoor environments and assessment methods will be covered (formerly listed as CDES 115). DS3

CD 116 3/3/0/0
ENGLISH LANGUAGE LEARNERS AND MULTILINGUAL CLASSROOMS
Recommended Preparation: CD 101, 110, CD 7/PSYC 7, ENG 200 and 340
Stages and theoretical perspectives on first and multiple language learning. Covers strategies, methodologies, and practical approaches used for teaching children in multilingual classroom settings structured to meet the needs of English language learners, including a guided acquisition design (formerly CDES 116). DS3

CD 117 3/3/0/0
TEACHING IN A DIVERSE SOCIETY
Recommended Preparation: CD 101, 110, ENG 200 and 340, CD 7/ PSYC 7
Examination of the development of social identities in diverse U.S. societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling (formerly CDES 117). DS3

CD 119 3/3/0/0
PERCEPTUAL-MOTOR DEVELOPMENT
Recommended Preparation: CD 101, 110, ENG 200 and 340, CD 7/PSYC 7
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 (formerly CDES 119). DS3

CD 120 3/3/0/0
OBSERVATION AND ASSESSMENT
Recommended Preparation: CD 101, 110, ENG 200 and 340
Focuses on the appropriate use of observation and assessment strategies to document and interpret children's development, growth, play and learning as the basis for planning for success and maintaining quality programs. Recording strategies, rating systems, portfolios and assessment methods are explored (formerly CDES 120). DS3

CD 121 5/3/6/0
PRACTICUM: THE STUDENT TEACHING EXPERIENCE
Prerequisite: CD 110
Limitation: TB test results on file in the Student Health Center
Recommended Preparation: CD 101, ENG 200 and 340
Student teachers will utilize 90 hours of lab classroom experience to demonstrate developmentally appropriate teaching competencies and make connections between theory and practice under supervision. Professional behaviors, relationships with children and families, play-based approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as students design, implement and evaluate experiences that promote positive development and learning in diverse settings (formerly CDES 121). DS3 R E 3

CD 123 3/3/0/0
INFANT AND TODDLER DEVELOPMENT
Recommended Preparation: CD 101, 110, ENG 200 and 340
Development and behavior in children 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 (formerly CDES 123). DS4

CD 124 1/1/0/0
INFANT AND TODDLER PRACTICUM
Prerequisite: CD 133
Limitation: TB test results on file in Student Health Center
Corequisite: CWE 180
Recommended Preparation: CD 101, 110, ENG 200 and 340
Provides supervised experience and discussion of experiences in infant and toddler childhood programs in approved, high quality infant/toddler centers. Experiences include 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 (formerly CDES 124). DS4

CD 125 3/3/0/0
SCHOOL-AGE BEFORE AND AFTER SCHOOL PROGRAMS
Recommended Preparation: CD 101, ENG 200 and 340
An integrated approach to designing, planning and implementing developmentally appropriate programs for school-age children in before and after school care settings. Includes techniques for effective discipline and guidance, and dynamics of working as a team member. This course applies towards the licensing requirements for school-age children and youth (formerly CDES 125). DS5

CD 127 2/2/0/0
ADULT SUPERVISION AND MENTOR PRACTICES
Recommended Preparation: CD 101, 110, ENG 200 and 340
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 (formerly CDES 127). DS6

CD 128 3/3/0/0
ADMINISTRATION OF YOUNG CHILDREN'S SETTINGS: PROGRAM
Recommended Preparation: CD 101, 110, ENG 200 and 340
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 (formerly CDES 128). DS6

CD 129 3/3/0/0
ADMINISTRATION OF YOUNG CHILDREN'S SETTINGS: MANAGEMENT
Recommended Preparation: CD 101, 110, ENG 200 and 340
Designed to prepare administrators of settings for young children. Emphasis is on preliminary steps: start-up, licensing requirements, operational and on-going costs, record keeping, managerial decision making, time management, legal issues, regulations and requirements (formerly CDES 128). DS6

CD 133 3/3/0/0
INFANT AND TODDLER CURRICULUM AND GROUP CARE
Recommended Preparation: CD 101, 110, 123, ENG 200 and 340
History and types of care for infants and toddlers. Focuses on developmentally appropriate curriculum and environments for infant and toddler group care. Caregiver roles and parent relationships will also be discussed (formerly CDES 133). DS4

CD 135 3/3/0/0
THE YOUNG CHILD WITH SPECIAL NEEDS
Recommended Preparation: ENG 200, 340, CD 7/ PSYC 7, CD 101, 110
Designed for students who are considering a career or certificate in special education or desire to work with children with special needs and their families. Also provides an overview of common disabilities of children and the impact on families. Educational issues, techniques, methods of intervention and case management are explored. Examines federal law and the development of the Individualized Family Support Plan and Individualized Educational Plan. Teaching practices and philosophies of childcare and school are discussed. Adaptation and intervention methods will be designed. Observation of children will be required.

CD 140 3/3/0/0
EARLY INTERVENTION AND INCLUSION
Recommended Preparation: ENG 200, 340, CD 7/PSYC 7, CD 101, 110
Theories, research, and practical applications from the fields of both early childhood education and special education. Includes curriculum modification strategies to facilitate the development of cognitive, motor, social/emotional and language skills in children with special needs. Emphasis on developing behavior management plans, collaborative teaching systems, and methods for working with paraprofessionals and parents of children with special needs. Introduces efficient and cost effective methods for adapting environments to meet children's unique needs. Practical strategies will be discussed for implementation of Individual Education Plans (IEP) and Individual Family Service Plans (IFSP).

CD 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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CD 202 3/3/0/0
FOUNDATIONS FOR FAMILY CHILD CARE PROVIDERS
Recommended Preparation: ENG 200 and 340
Provides current or future family child care providers with effective strategies for all aspects of a successful, quality family child care business. Parent/provider contracts, record keeping, interviewing, communication, licensing and national standards of quality will be addressed. Developmentally appropriate indoor and outdoor activities will be included as well as ideas for mixed aged groups of children (formerly CDES 202). DS3

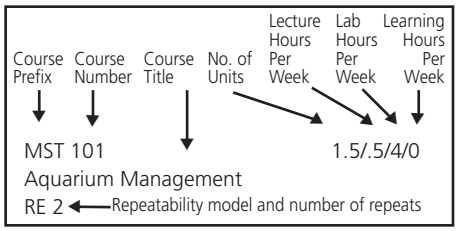
CD 250 1/.5/1/0
GARDENING WITH YOUNG CHILDREN
Basic skills and strategies for developing and maintaining gardens with young children, including garden site development, plant selection, developmentally appropriate activities for children, ideas for funding and maintaining school gardens, and tips for working with volunteer helpers.

CD 251 1/.5/1/0
COOKING WITH YOUNG CHILDREN
A practical application of nutrition education in the early childhood setting. Students will experience and design nutritional activities for the preschool classroom in various learning center components. Current teaching strategies and nutritional activities that promote a positive learning environment, student participation, and home-school integration will be emphasized.

CD 252 1/1/0/0
THE INFLUENCE OF MASS MEDIA ON CHILDREN
Considers the role of mass media in socializing young children. Emphasis is on understanding and negotiating the influence of mass media on development, including the impact of television, movies, commercial advertising, books, popular music, computerized games and the internet.

CD 270 1/1/0/0
PRESCHOOL LEARNING FOUNDATIONS: SOCIAL AND EMOTIONAL DOMAIN
Introduces the competencies identified in the California Preschool Learning Foundations in the domain of social- emotional development including the strands of self, social interaction, and relationships. Emphasis will be on the multiple ways in which young children's development in this domain influences their ability to adapt successfully to preschool and later in school. Provides practical strategies for implementing the curriculum frameworks developed for this domain.

CD 271 1/1/0/0
PRESCHOOL LEARNING FOUNDATIONS: LANGUAGE AND LITERACY DOMAIN
Introduces the competencies identified in the California Preschool Learning Foundations in the domain of language and literacy development including the strands of listening and speaking, reading, and writing. Emphasis will be on the field's growing interest in and understanding of the knowledge and skills that foster children's language and literacy learning during the preschool years. Provides practical strategies for implementing the curriculum frameworks developed for this domain.



CD 272 **1/1/0/0**
PRESCHOOL LEARNING FOUNDATIONS: ENGLISH LANGUAGE DEVELOPMENT
Introduces the competencies identified in the California Preschool Learning Foundations in the domain of English language development including the strands of listening, speaking, reading, and writing. Emphasis will be on the sequential and multifaceted tasks faced by children learning second languages. Provides practical strategies for implementing the curriculum frameworks developed for this domain.

CD 273 **1/1/0/0**
PRESCHOOL LEARNING FOUNDATIONS: MATHEMATICS
Introduces the competencies identified in the California Preschool Learning Foundations in the domain of mathematics including strands of number sense, algebra and functions, measurement, geometry, and mathematical reasoning. Provides practical strategies for implementing the curriculum frameworks developed for this domain.

CD 274 **1/1/0/0**
DOCUMENTATION OF CHILDREN'S LEARNING
This foundation course explores the role of documentation in education as a tool for reflection, assessment and growth of children, teachers and families. Students create a documentation panel represented as a learning process in an early childhood or elementary classroom and learn to identify and understand the integral pieces of this learning process.

CD 289 **.5-4/.5-4/.5-9/.5-9**
SPECIAL TOPICS
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Chinese

CHI 1 **5/5/0/0**
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.

CHI 2 **5/5/0/0**
ELEMENTARY CHINESE
Prerequisite: CHI 1 or two years of high school Chinese
Corequisite: CHI 999A
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.

CHI 3 **5/5/0/0**
INTERMEDIATE CHINESE
Prerequisite: CHI 2 or three years of high school Chinese
Corequisite: CHI 999B
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Chinese cultures.

CHI 4 **5/5/0/0**
INTERMEDIATE CHINESE
Prerequisite: CHI 3 or four years of high school Chinese
Corequisite: CHI 999B
Emphasizes fluency in speaking, reading, writing, and comprehension of Chinese. Includes selected readings and discussions from the basic four genres in Chinese and Chinese-American literature, culture, and customs.

CHI 21 **3/3/0/0**
INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE UNITED STATES
Recommended Preparation: College-level reading ability
Designed to provide a brief overview in English of the historical contours of Chinese culture. Areas of study include the present implications of the five thousand-year-long history, developmental imbalances as a consequence of geographical and communication barriers, the integrative power of the written language, the stability of the family system, and the tension between tradition and modernity. No prior study of the Chinese language or culture is required.

CHI 999A **.25/0/0/1**
CHINESE LANGUAGE LAB
Corequisite: CHI 1, 2
Requires concurrent enrollment in designated Elementary Chinese courses. Enhances and provides practice in skills learned in Elementary Chinese courses. R E 3

CHI 999B **.25/0/0/1**
CHINESE LANGUAGE LAB
Corequisite: CHI 3, 4
Requires concurrent enrollment in designated Intermediate Chinese courses. Enhances and provides practice in skills learned in Chinese language courses. R E 3

Classics

CLSS 5 **3/3/0/0**
BUILDING ENGLISH VOCABULARY THROUGH GREEK AND LATIN ROOTS
Course 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 ENG 65. Credit given in either area, not both.

Communication Arts

CA 1 **3/3/0/0**
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.

CA 27 **3/3/0/0**
UNSEEN HOLLYWOOD
Perspectives of underrepresented groups in US films. Examines political, economic, and philosophical highlights of their work in front of and behind the camera. Includes various genres and analysis of the societal impact of these films. Students will view and evaluate a large cross-section of films (formerly CA 106).

CA 28 **3/3/0/0**
HISTORY OF INTERNATIONAL FILM
Evaluation of International Cinema as an art form and cultural force through exploration of its history, techniques, and relationship to society. Students will view and critique outstanding examples of international cinema including genre from several European, Latin, and Asian origins. R E 2

CA 29 3/3/0/0
WOMEN IN FILM AND TELEVISION
A historical perspective on the role of women in film. Examines political, economic, and philosophical highlights of 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 3/3/0/0
THE HISTORY AND APPRECIATION OF FILM
Evaluation of film as an art form and 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.

CA 31 3/2/3/0
FILM PRODUCTION I
Prerequisite: CA 101
Learn 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. A combination of CA 31 and 32 may be taken a maximum of four times. R A 3

CA 32 3/2/3/0
FILM PRODUCTION II
Prerequisite: CA 31
Recommended Preparation: CA 40
Students will produce and shoot short films to compete in film festivals. Emphasis on professional level films and personal development of skills. Students will shoot single-camera film style, using advanced digital film production equipment and editing on advanced non-linear programs. A combination of CA 31 and 32 may be taken maximum of four times. R A 3

CA 40 3/3/0/0
TELEVISION AND FILM 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 character development, the rewrite, dialogue, format, story and structure. Student work will be considered for production by film production courses. A combination of CA 40 and CA 142 may be taken a maximum of four times. R A 3

CA 42 3/2/3/0
TELEVISION AND FILM DIRECTING
Prerequisite: CA 101
Provides students with 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 100 3/3/0/0
INTRODUCTION TO RADIO, TV, AND FILM
Exploration of the history and organization of the radio, TV, and film industry. Provides an overview of the technologies and organizational structure of the industry with emphasis on career opportunities in radio, TV, and film.

CA 101 3/3/1/0
VIDEO PRODUCTION BASICS
Introduction to video production including camera, lighting, and editing. Develop an understanding of video technology and vocabulary. Learn technique and application of video tools such as cameras, lights, audio, and non-linear editing. Demonstrate understanding of aesthetic theory by applying concepts to student productions.

CA 110 3/2/3/0
AUDIO PRODUCTION
Emphasizes the basic principles and techniques of acquiring, developing, and producing material for various audio applications including: radio, Internet, television, and film audio production.

CA 111 3/2/2/0
AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM
Prerequisite: CA 101
Audio production, acquisition, and sound design for film, television, and new media. Course focuses on hands-on experience using a mix of digital audio recording equipment in various production scenarios. Applications and techniques in the areas of recording, mixing, effects, and mastering shall all be studied. Terminology, equipment usage, and strategy from pre-production, through production and finishing in post-production is covered.

CA 113 3/3/1/0
RADIO BROADCASTING
Prerequisite: Completion of or concurrent enrollment in CA 110
Explore the basic elements of radio broadcasting. Areas include station organization, music and talk programming formats, promotions, sales, announcing, and FCC regulations. Prepares students for advanced course and participation in actual on-air experiences at KSBR and OC Rock Radio.

CA 114 2/1/2/0
RADIO STATION ACTIVITIES
Recommended Preparation: CA 110 and 113
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. R E 3

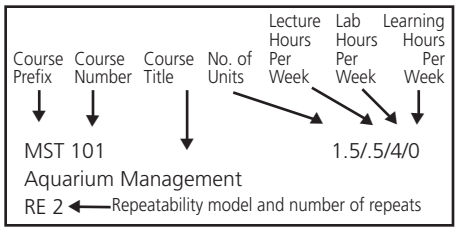
CA 115 2/1/2/0
ADVANCED RADIO BROADCASTING
Prerequisite: CA 113
Provides the student with continuing experience in operating the college radio station, KSBR-FM. Emphasis will be placed on operating studio equipment and in music programming and formats. Provides the student interested in a professional career in broadcasting with a variety of broadcast experiences. R E 3

CA 118 4/3/3/0
DIGITAL MULTI-TRACK MUSIC RECORDING
Initial exposure to sound recording principles, techniques, and equipment. Emphasizes multi-track music recording process, basic tracks, overdubbing, and mixdown. Students will receive hands-on experience with professional 24 track digital recording equipment while the class participates in a variety of recording projects. Also listed as MUS 118. Credit given in either area, not both.

CA 124 3/2/3/0
TELEVISION PRODUCTION I
Prerequisite: CA 101
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 field production. Projects will be broadcast on Cox Channel 39.

CA 125 3/2/3/0
TELEVISION PRODUCTION II
Prerequisite: CA 124
An advanced course emphasizing 3-camera studio and single-camera field production. Students will produce studio television productions. Shows will be broadcast on Cox Channel 39. R E 2

CA 128 3/2/3/0
TELEVISION AND RADIO NEWS
Prerequisite: CA 101
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



CA 130 3/2/3/0
DOCUMENTARY PRODUCTION

Prerequisite: CA 101

A hands-on production course focusing on documentary projects. Students will explore various styles of documentaries and produce documentary films. R E 3

CA 131 3/2/2/0
NON-LINEAR EDITING I

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. A combination of CA 131 and 232 may be taken a maximum of four times. R A 3

CA 138 3/3/0/0
ADVERTISING

Contemporary advertising for profit and non-profit organizations. Surveys 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 given in either area, not both.

CA 141 3/2/3/0
VOICE-OVER AND ANNOUNCING

Develop effective radio and television performance techniques stressing skills in narration, dubbing, and voice-over for industry, education, entertainment and commercials.

CA 142 3/3/1/0
TELEVISION AND FILM SCRIPTWRITING II

Prerequisite: CA 40

Advanced level script writing from initial concept to final product including character development, 3-act story structure, dialogue and narrative. Student work will be considered for production. A combination of CA 40 and CA 142 may be taken a maximum of four times. R A 3

CA 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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CA 206 1/1/0/0
PRODUCTION MANAGEMENT

Defines and examines the role of the producer, production manager, coordinator and production assistant through the pre-production, production, and post production phases. Emphasis is placed on script breakdown, crew selection and hiring practices, industry work rules, production procedures, safety requirements and legal issues. R E 3

CA 207 1/1/0/0
EDITOR'S BOOT CAMP

Learn how to become an editor, capture video, import and export media, manage projects, manipulate sound and moving pictures on a non-linear editing system including titling and filters. R E 3

CA 208 2/1.5/1.5/0
CINEMATOGRAPHY

Introduction to the art and science of lighting for the camera. The proper set-up, identification, uses, and effects of lighting needed to create dramatic visual images are used to learn the relationship of lighting to the camera, exposure, shutter speed, ISO ratings, and filters. Students will learn crew positions and cinematography organization. R E 3

CA 209 3/2/3/0
SCRIPT SUPERVISING FOR FILM AND TELEVISION

Introduces the theory and practice of script supervising for film and television production. Includes techniques of continuity, timing, script breakdown, edit logs and editing notes for feature films, television shows, commercials, shorts, infomercials and documentaries. R E 3

CA 211 3/2/3/0
FILM PRODUCTION III

Prerequisite: CA 32
Recommended Preparation: CA 31, 131

Learn professional filmmaking using RED Digital Cinema and the advanced production of a short film. The script and key crew positions will be determined by instructor. Students are expected to be fully capable of fulfilling crew positions as assigned. Students will assist in the pre-production, production, and post-production of the picture. R E 2

CA 212 3/2/3/0
PERFORMANCE FOR TELEVISION AND FILM

An on-camera process class that develops technical and performance skills specific to film and television. R E 3

CA 213 2/2/0/0
PRODUCTION DESIGN FOR FILM AND TELEVISION

Learn the art and craft of designing for film and television including set design, set dressing, wardrobe, props, and general stagecraft. Learn to emotionally influence the viewer, set a mood, and the general approaches to production design, art direction, and safety. R E 3

CA 232 3/2/2/0
NON-LINEAR EDITING II

Prerequisite: CA 131

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 animations, audio enhancement, and image output for various formats. A combination of CA 131 and CA 232 may be taken a maximum of four times. R A 3

CA 233 1/1/0/0
RADIO/TELEVISION/FILM INTERNSHIP

Corequisite: CWE 180
Recommended Preparation: CA 31 or 110 or 124

Develop job skills in a professional working environment, such as a radio station, television production company, talent agency, or film studio. R E 2

CA 235 3/2/2/0
DIGITAL SPECIAL EFFECTS

Recommended Preparation: CA 131

Introduction to creating digital special effects in the non-linear edit suite. Using state-of-the-art special effects software, including After Effects, and Apple Motion, students will learn to combine graphic images with digital video projects, create key-frame 2D animations, 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 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Computer and Information Management

CIM 1 3/3/0/3
INTRODUCTION TO COMPUTER INFORMATION SYSTEMS
Basic computer concepts including computer system components, operating systems, application programs, databases, communication networks, business information systems development, ethical issues, and Internet usage. Emphasizes spreadsheets, entering data, using formulas, creating charts, formatting worksheets, using functions, what-if analysis, absolute vs.. relative addresses, and linking worksheets. Focuses on database software; entering and editing data; defining fields; creating tables, forms, queries, and reports; and sorting data. Exposes students to word processing and presentation graphics software.

CIM 2A 3/3/0/3
BUSINESS PROGRAMMING I: VISUAL BASIC
Provides an introduction to the fundamentals of event driven, object-oriented 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. A combination of CIM 2A and 2B may be taken a total of four times. R A 3

CIM 2B 3/3/0/3
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. A combination of CIM 2A and 2B may be taken a total of four times. R A 3

CIM 6A 3/3/0/3
BUSINESS PROGRAMMING I: C++
Emphasizes C++ and object-oriented programming for software development of business applications. Includes 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. A combination of CIM 6A and 6B may be taken a total of four times. R A 3

CIM 7A 3/3/0/3
BUSINESS PROGRAMMING: JAVA--BEGINNING
Recommended Preparation: CIM 2A 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, arrays, inheritance, information hiding, polymorphism, encapsulation, primitive types, flow control, interfaces, packages, and the Java API. A combination of CIM 7A and 7B may be taken a total of four times. R A 3

CIM 7B 3/3/0/3
BUSINESS PROGRAMMING: JAVA--ADVANCED
Recommended Preparation: CIM 7A
An in-depth study of advanced Java programming concepts. Provides skill for advanced programming, sockets, exception handling, HTML, threads, multithreading, swing, AWT, graphics, API, and inheritance. A combination of CIM 7A and 7B may be taken a total of four times. R A 3

CIM 10 3/3/0/3
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.

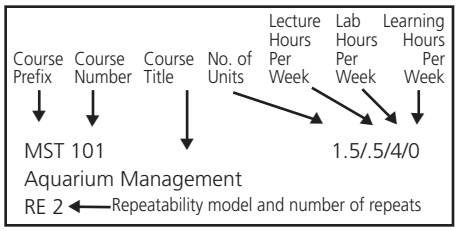
CIM 112 3/3/0/3
MICROSOFT OFFICE
Provides a computer exploration of Microsoft Office. Extensive activities are provided using word processing, database management, spreadsheet, and presentation software. Focus includes creating, maintaining, and querying a database management system and creating, editing formatting, and printing text and spreadsheet documents. R E 3

CIM 120 1.5/1.5/0/1.5
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 life-long learning in a technologically-changing society. Exercises in using word processing, spreadsheet, database, graphics, and communications software. No computer experience is required.

CIM 121A 1.5/1.5/0/1.5
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. A combination of CIM 121A, 121B, and 121C may be taken four times. R A 3

CIM 121B 1.5/1.5/0/1.5
KEYBOARDING FOR COMPUTERS: INTERMEDIATE
Recommended Preparation: CIM 121A
Builds keyboarding speed and accuracy. Introduces word processing command keys and formats to produce basic tables, business letters, and reports. A combination of CIM 121A, 121B, and 121C may be taken four times. R A 3

CIM 121C 1.5/1.5/0/1.5
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. A combination of CIM 121A, 121B, and 121C may be taken four times. R A 3



CIM 171 3/3/0/3
COMPUTER OPERATING SYSTEMS: WINDOWS COMMAND LINE INTERFACE

Recommended Preparation: CIM 174B or 174

Provides an in-depth study of computer hardware and operating system concepts. Focuses on the command line interface in Windows, 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. R E 3

CIM 172 3/3/0/3
COMPUTER OPERATING SYSTEMS: UNIX/LINUX

Recommended Preparation: CIM 171

Provides an overview of operating system concepts. Presents implementation through the use of UNIX/Linux commands. Class studies operating system concepts such as file systems, variables, and permissions. Students will use a computer system to execute problem-solving exercises using UNIX/Linux commands, both in the shell and in the GUI (Graphical User Interface). Students will use learn and use commands that are necessary for maintaining a UNIX/Linux workstation including file and directory management commands, editors, pipes, filters and redirection commands, permissions, processes and elementary shell scripting. R E 3

CIM 174 3/3/0/3
COMPUTER OPERATING SYSTEMS: WINDOWS

Overview of computer hardware, software, and the operating system used on computers. Windows operating system studied in depth. Developed skills will include manipulating files and folders within Window's scheme of file management The Web will be safely explored, using Internet Explorer. Expertise in maintaining, optimizing, monitoring and tracking computer's performance will be studied. Students will use tools provided by Windows for communicating over the Internet and set up a small network, as well as use media and graphics manipulation tools, such as Media Center, Photo Gallery and Movie Maker. End-user techniques for controlling computer security as well as basic diagnostic and troubleshooting procedures will be included. R E 3

CIM 174A 1.5/1.5/0/1.5
COMPUTER OPERATING SYSTEMS: WINDOWS--BEGINNING

Provides an overview of computer hardware, software, and the operating system used on computers. Fundamentals of the Windows operating system are studied in depth. Skills will be developed in manipulating (creating, copying, moving, renaming, deleting, backing up and restoring) files and folders within the operating system's scheme of file management. The Web will be safely explored using Internet Explorer. In addition, expertise in maintaining and optimizing the computer's performance will be studied. A combination of CIM 174A and CIM 174B may be taken a total four times. R A 3

CIM 174B 1.5/1.5/0/1.5
COMPUTER OPERATING SYSTEMS: WINDOWS--INTERMEDIATE

Recommended Preparation: CIM 174A

Continuation of CIM 174A. Topics covered will include: monitoring and tracking the performance of a computer system, using tools provided by Windows for communicating over the Internet, such as Windows Mail and Windows Live. Setting up a small office or home network will be covered. Media and graphics manipulation will be introduced using Windows Media Player, Media Center, Photo Gallery and Movie Maker. End-user techniques for controlling computer security as well as basic diagnostic and troubleshooting procedures will be learned. A combination of CIM 174A and CIM 174B may be taken a total of four times. R A 3

CIM 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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CIM 205A 3/3/0/3
WEB DEVELOPMENT AND DB: INTRO SQL AND MySQL

Covers server-side web development using Structured Query Language (SQL) and MySQL, to create, manipulate, and query databases. Covers the fundamentals of a relational database, single table queries, multiple table queries, updating data, MySQL database administration, querying data, joins, and indexes. R E 1

CIM 205B 3/3/0/3
WEB 2.0:LAMP PHP/MySQL--WEB SITE APPLICATION INTEGRATION

Recommended Preparation: CIM 205A

Covers LAMP (Linux Apache MySQL PHP-Perl-Python-Ruby) tools used to develop and employ web applications. Focuses on the evaluation and integration of web application including: E-commerce alternatives (Zencart, Gbuy, Paypal), CMS (Content Management Systems), Bulletin Boards (PHPBB), Web Log/Blogs (Serendipity) and database administration (PHPMyAdmin). Provides overview of languages and tools used to develop and implement open source web applications such as Linux operating system, Bash, PHP, MySQL, Perl, Lua, Ruby and MVC (Model View Controller) web application frameworks like Ruby on Rails (RoR). R E 1

CIM 213A 2.5/.5/0/9.5
OFFICE SKILLS--OFFICE PROCEDURES

Prepares students to work efficiently in today's offices. Topics include characteristics of a successful employee, organization and time management, written and oral communications, interoffice communications, records management, human relations, planning meetings, arranging for business travel, employment and career advancement, and business etiquette. R E 3

CIM 213B .5/.5/0/2.5
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. R E 3

CIM 213D .5/.5/0/2.5
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 Help, launching applications, managing files and folders with Explorer and My Computer, as well as handling disk maintenance. R E 3

CIM 213E .5/.5/0/2.5
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. R E 3

CIM 213F .5/.5/0/2.5
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. R E 3

CIM 213G .5/.5/0/2.5
OFFICE SKILLS--DESKTOP PRESENTATION FOR BUS (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. R E 3

CIM 213H .5/.5/0/2.5
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. R E 3

CIM 213J .5/.5/0/2.5
OFFICE SKILLS--DESKTOP PUBLISHING (PUBLISHER)
A self-paced, entry-level course designed to provide beginning information and training in the use of desktop publishing software for business applications. Desktop published examples will be produced for a variety of applications. R E 3

CIM 214 3/3/0/3
WORD PROCESSING: WORD
Recommended Preparation: CIM 121A
Provides training on the use of word processing software. Students will utilize basic and advanced program features to create, edit, and format documents for personal and business use. R E 3

CIM 214A 1.5/1.5/0/1.5
WORD PROCESSING: WORD--BEGINNING
Recommended Preparation: CIM 121A
Provides training on the use of computer-based word processing software and/or applications. Covers creating, editing, and formatting personal and business documents. A combination of CIM 214A and 214B may be taken a total of four times. R A 3

CIM 214B 1.5/1.5/0/1.5
WORD PROCESSING: WORD--ADVANCED
Recommended Preparation: CIM 214A
Provides intermediate and advanced skills for the user of word-processing applications software. Recommended for students who possess basic word processing skills and would like to learn advanced features. A combination of CIM 214A and 214B may be taken for a total of four times. R A 3

CIM 216 3/3/0/3
SPREADSHEETS: EXCEL
Recommended Preparation: CIM 174A or 174
Provides information and training in the use of computer-based spreadsheet software for business applications. Workbooks will be produced for a variety of applications. R E 3

CIM 216A 1.5/1.5/0/1.5
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. A combination of CIM 216A, 216B, and 216C may be taken a total of four times. R A 3

CIM 216B 1.5/1.5/0/1.5
SPREADSHEETS: EXCEL--INTERMEDIATE
Recommended Preparation: CIM 216A
Provides information and training in the use of computer-based spreadsheet software for business applications. A combination of CIM 216A, 216B, and 216C may be taken a total of four times. R A 3

CIM 216C 1.5/1.5/0/1.5
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. A combination of CIM 216A, 216B, and 216C may be taken a total of four times. R A 3

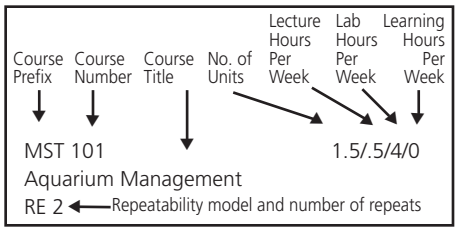
CIM 218 3/3/0/3
DATABASE: ACCESS
Recommended Preparation: CIM 174B or 174
Utilize database management software to generate applications for solving business problems. Emphasis is on concepts and procedures for designing databases and producing reports. Database objects such as tables, forms, queries, and reports will be created. R E 3

CIM 221 3/3/0/3
MANAGING PROJECTS WITH MICROSOFT PROJECT
Learn to create a complete project schedule with tasks and task relationships. Edit and organize a project, assign resources to the tasks, use Project views to get information, format, and print views, Gantt charts, calendars, and reports. Learn to sort, find, and filter tasks or resources in a project; use views, tables, details, groups, and filters to view project information; create and edit views, tables, and filters; shorten the critical path of the project; manage the project's resources; manage and view cost information; and track the completion of tasks in the project. R E 3

CIM 223A 1.5/1.5/0/1.5
COMPUTERIZED ACCOUNTING: QUICKBOOKS--BEGINNING
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 handle chart of accounts, merchandise, customers and receivables, vendors and payables, banking, inventory, and reports. A combination of CIM 223A and 223B may be taken a total of four times. R A 3

CIM 223B 1.5/1.5/0/1.5
COMPUTERIZED ACCOUNTING: QUICKBOOKS--ADVANCED
Recommended Preparation: CIM 223A
Provides training in advanced business accounting procedures in QuickBooks using Windows environment. Includes inventory setup, employee and payroll setup, sales tax setup, estimates, time tracking, pass through expenses, and adjustment and year-end procedures. A combination of CIM 223A and 223B may be taken a total of four times. R A 3

CIM 225 3/3/0/3
WEB DEVELOPMENT: PHP
Covers server-side web development using the PHP scripting language. Designed to be a first class on creating dynamic Web pages. Topics covered include: PHP syntax and variables, HTML forms, super globals, arithmetic operations, numbers, strings, control structures, arrays, creating functions, file uploading, and directories. R E 1



CIM 227 1.5/1.5/0/1.5
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 email, discussion groups, chat rooms, newsgroups, file transfer protocol, search techniques and tools, the World Wide Web, and Internet browsers. Video conferencing and Internet security are discussed. R E 3

CIM 229A 1.5/1.5/0/1.5
BUSINESS GRAPHICS--BEGINNING
Recommended Preparation: CIM 174A or 174
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. Surveys the concepts, structures, and processes utilized in computers to implement business applications graphics. A combination of CIM 229A and 229B may be taken a total of four times. R A 3

CIM 229B 1.5/1.5/0/1.5
BUSINESS GRAPHICS--ADVANCED
Recommended Preparation: CIM 229A
Covers 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. A combination of CIM 229A and 229B may be taken a total of four times. R A 3

CIM 230 3/3/0/3
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. R E 3

CIM 246 3/3/0/3
VISUAL BASIC FOR APPLICATIONS-EXCEL
Recommended Preparation: CIM 216B or 216
Use of advanced computer applications featuring Excel and Visual Basic programming. Prepares student for Microsoft certification test. R E 3

CIM 248 3/3/0/3
VISUAL BASIC FOR APPLICATIONS-ACCESS
Recommended Preparation: CIM 218
Includes the use of advanced computer applications using the features of Access and Visual Basic. Prepares students for Microsoft certification test. R E 3

CIM 249 3/3/0/3
ADMINISTERING MICROSOFT WINDOWS CLIENTS
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 3/3/0/1
INTRODUCTION TO NETWORKING
Recommended Preparation: CIM 10
Provides an in-depth look at the terminology, technology, and economic realities of Local Area Networks (LANs) and Wide Area Networks (WANs). Network hardware and components will be examined in detail. LAN and WAN design examples will be discussed. Troubleshooting tools and techniques will be presented.

CIM 252 3/3/0/3
NETWORKING ESSENTIALS AND TECHNOLOGIES
Recommended Preparation: CIM 251
Presents LAN and WAN technologies in detail. Covers network operations, design concepts, and protocols. Students will learn how to make infrastructure components and set up workstations for LAN operablity and WAN interoperability. LAN and WAN networks will be designed and implemented using hubs, switches, and routers. Basic Cisco switch and router programming and troubleshooting strategies are included. R E 1

CIM 253 3/3/0/3
SUPPORTING WINDOWS SERVER
Recommended Preparation: CIM 249
Students perform an attended and an unattended installation of Windows Server and learn about the various file systems supported by Windows. Learn how to install and administer Active Directory services and how to manage Active Directory objects. Use Microsoft Management Console to monitor system performance and to administer Internet Information Services, user accounts, group accounts, and group policies. Learn how to administer print services, install and administer network protocols and services, backup data, implement disaster protection, and recover from a disaster. R E 3

CIM 254 3/3/0/3
WINDOWS SERVER ACTIVE DIRECTORY ADMINISTRATION
Recommended Preparation: CIM 249 and 253
Install, configure, and administer Microsoft Windows Active Directory directory services. 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 3/3/0/3
FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION
Recommended Preparation: CIM 172
Guides students through the fundamental responsibilities of Unix/Linux system administration. 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 installing Unix/ Linux; configuring X windows and common system hardware; creating and maintaining the file system; boot process; administering user and group accounts; integration of a workstation with an existing network; administering printing subsystems; system log responsibilities; backing up file systems; configuring the kernel; basic performance, memory, and process management; and basic troubleshooting. Includes creation of shell scripts to automate system admin. tasks. R E 3

CIM 257 3/3/0/3
NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX
Recommended Preparation: CIM 256
Guides students through the fundamental responsibilities of Unix/Linux system administrator in building and maintaining an internal LAN using multipurpose servers. Topics will cover TCP/IP administration; installing and maintaining SMB protocols; and installing and maintaining basic server applications such as sendmail, DHCP, and DNS. Includes introductions to database backends, network security, developing a security policy, file and file system security, password security, service-based security, and firewalls. The student will learn to set up a Unix/Linux internal server and configure common network services and security at a basic level. R E 3

CIM 258 3/3/0/3
ADVANCED NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX
Recommended Preparation: CIM 257
Guides students through the fundamental responsibilities of a Unix/Linux system administrator in building and maintaining a secure Internet-facing network using multipurpose servers. Comprises the technical aspects of configuring and maintaining a server to support a website and its activities including network operating systems. Topics include Web server setup, system control maintenance, website monitoring, and system backup and recovery. Security issues with basic services, advanced host and network security, and database backends will also be covered. Apache will be installed, configured, and customized to be used as a Web server. R E 3

CIM 259 3/3/0/3
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. Includes Domain Name System (DNS), Windows Internet Name Service (WINS), and Dynamic Host Configuration Protocol (DHCP) in Active Directory-enabled environments. Learn how to configure, manage, secure, and troubleshoot features and services for Windows enterprise networks, including Routing and Remote Access. R E 3

CIM 260A 3/3/0/3
MICROSOFT ASP.NET--BEGINNING
Recommended Preparation: CIM 2A and 271A
Create Microsoft ASP.NET Web applications that deliver dynamic content to the Web by using Visual Studio.NET. Create and populate ASP.NET Web Forms and add functionality to server controls that are on an ASP.NET Web Form. Create user controls to access data in an ASP.NET Web application. A combination of CIM 260A and 260B may be taken a total of four times. R A 3

CIM 260B 3/3/0/3
MICROSOFT ASP.NET--ADVANCED
Recommended Preparation: CIM 260A
Develop a personal application framework for rapid development using best practices techniques. Topics will range from using Microsoft Application Blocks to streamline data handling and exception management to web services and security. A combination of CIM 260A and 260B may be taken a total of four times. R A 3

CIM 264A 1.5/1.5/0/1.5
WEB ANIMATION: FLASH--BEGINNING
Interactive animation of Web sites using the web page development tool Macromedia Flash. Course explores animation concepts such as frame by frame and tweening. Also includes creating special effect animations, HTML publishing, symbol creation, button interactivity, and drawing tools. A combination of CIM 264A and 264B may be taken a total of four times. R A 3

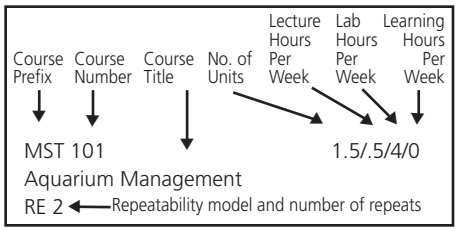
CIM 264B 1.5/1.5/0/1.5
WEB ANIMATION: FLASH--INTERMEDIATE
Recommended Preparation: CIM 264A
Advanced interactive animations for web sites using Macromedia's FLASH. Course expands on animation concepts to build multi-scene movies and create advanced action scripting, pop-out menus, invisible hit states, and sound. Also explores sound compression, the integration of sound to achieve communication objectives on the web, and importing and modifying graphics and complex animations. A combination of CIM 264A and 264B may be taken a total of four times. R A 3

CIM 264C 3/3/0/3
WEB ANIMATION: FLASH ACTIONSCRIPT--BEGINNING
Recommended Preparation: CIM 264A
Extend the exploration of animation and interactivity using Flash and ActionScript. Introduces the basics of ActionScript along with programming logic and debugging. A combination of CIM 264C and 264D may be taken a total of four times. R A 3

CIM 264D 3/3/0/3
WEB ANIMATION: ADVANCED FLASH SITES AND ACTIONSCRIPT HACKS
Recommended Preparation: CIM 264A
Covers intermediate and advanced concepts of Flash and ActionScript to create dynamic and interactive business and recreational Web designs. Includes advanced Flash site and examines various Flash/ActionScript hacks used to create special effects such as rain drops, water, and butterfly animation. Implements advanced ActionScript techniques: color transforms, video fade, pixel-based fades and wipes, and old film grain simulations into generic Flash-based movies. A combination of CIM 264C and 264D may be taken a total of four times. R A 3

CIM 268 1.5/1.5/0/1.5
WEB ADVANCED MEDIA INTEGRATION
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, panorama images, animations, and sound medias. R E 3

CIM 269A 1.5/1.5/0/1.5
WEB DEVELOPMENT: JAVASCRIPT--BEGINNING
Recommended Preparation: CIM 271A
Introduces JavaScript programming concepts: XHTML, data types, operators, object-oriented JavaScript, dynamic HTML, functions, events, control structures, browser, document, window objects, debugging and client-side dynamic Web page design. A combination of CIM 269A and 269B may be taken a total of four times. R A 3



CIM 269B 3/3/0/3
WEB DEVELOPMENT: ADVANCED JAVASCRIPT/CSS/XML/DOM/AJAX
Recommended Preparation: CIM 269A
Intermediate and advanced client-side web development using JavaScript, Extensible Markup Language(XML), Cascading Style Sheets (CSS), and Document Object Model (DOM). Includes a concentrated overview of basic JavaScript programming, data types, operators, functions, events, control structure, browser object model, HTML forms, object-oriented JavaScript , as well as intermediate JavaScript concepts including debugging, cookies, and security. Also introduces XML, CSS, and analysis of DOM. Learn how to create XML/JavaScript/CSS documents adhering to both DOM model and World Wide Web Consortium (W3C) validation. Introduction to Asynchronous JavaScript and XML (Ajax) web development technique. A combination of CIM 269A and 269B may be taken four times. R A 3

CIM 271A 1.5/1.5/0/1.5
WEB DEVELOPMENT: XHTML--BEGINNING
Recommended Preparation: CIM 174 or 174A/B
Develop a practical understanding of the basic XHTML code necessary to construct a web page. Covers text formatting commands, as well as links, email, tables, frames, and forms. Identify and use steps necessary to insert and manipulate graphics within a web page, and determine how the code or script relates to XHTML editors, servers, and service providers. A combination of CIM 271A and 271B may be taken a total of four times. R A 3

CIM 271B 1.5/1.5/0/1.5
WEB DEVELOPMENT: XHTML--ADVANCED
Recommended Preparation: CIM 271A
Introduces advanced concepts for creating robust web pages that enable the structured and improved delivery of information over a corporate Intranet or the World Wide Web. Covers use and function of cascading style sheets and multimedia. Dynamic web pages using XHTML, JavaScript, and one or more server side technologies is also introduced. A combination of CIM 271A and 271B may be taken a total of four times. R A 3

CIM 272A 1.5/1.5/0/1.5
WEB 2.0 DESIGN: CASCADING STYLE SHEETS--BEGINNING
Recommended Preparation: CIM 278A
The future of web design requires supporting multiple devices and desktop publishing level web pages. Cascading Style Sheets (CSS) is the standard tool for taking HTML to the next level. CSS provides an intuitive means to easily create desktop publishing level web pages. CSS also permits the same page to be displayed on various web-accessing devices such as cellular phones and IPODs. Covers all the basic features of CSS including page layout, positioning, text alignment, formatting, margins, borders, text-flow, background images, and custom styles. A combination of CIM 272A and 272B may be taken a total of four times. R A 3

CIM 272B 1.5/1.5/0/1.5
WEB DESIGN AND WEB DEVELOPMENT OVERVIEW--INTERMEDIATE
Recommended Preparation: CIM 272A
Covers intermediate web site design, including CSS Hacks, and an overview of web site development. Various programming languages, scripting languages and frameworks will be discussed including XHTML, Java, PERL, Ruby, Bash, PHP, MySQL, and JavaScript. Different methods and techniques of web site interaction, including forms, Java Applets and security, will be discussed. A combination of CIM 272A and CIM 272B may be taken a total of four times. R A 3

CIM 274A 1.5/1.5/0/1.5
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. A combination of CIM 274A and 274B may be taken a total of four times. R A 3

CIM 274B 1.5/1.5/0/1.5
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. A combination of CIM 274A and 274B may be taken a total of four times. R A 3

CIM 275 1.5/1.5/0/1.5
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 277 3/3/0/3
E-COMMERCE AND WEB SITE DESIGN
Recommended Preparation: CIM 174A or 174, 271A and 278A
Provides an examination of the business and technology elements of e-commerce and web site design. Focuses on skills required to plan, develop, and implement an e-business using the principles of web site design. Topics include an overview of the web, user requirements, project life cycle, design and implementation requirements, scale and reliability, site parameters, content and design, site testing, usability, promotion, marketing, and maintenance to culminate in a business plan for design and implementation and an e-business web site map. R E 3

CIM 278A 1.5/1.5/0/1.5
WEB DEVELOPMENT: 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. A combination of CIM 278A and 278B may be taken a total of four times. R A 3

CIM 278B 1.5/1.5/0/1.5
WEB DEVELOPMENT: 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. A combination of CIM 278A and 278B may be taken a total of four times. R A 3

CIM 279 3/3/0/3
INFORMATION SECURITY FUNDAMENTALS
Recommended Preparation: CIM 172, 174 or 174A/B, and 251
Provides fundamental knowledge for managing all aspects of an enterprise-wide security life cycle including security policy development, authentication, encryption, securing operating systems and network infrastructure, firewall and intrusion detection technologies, intrusion prevention and incident response procedures. R E 3

CIM 281 1.5/1.5/0/1.5
WEB DEVELOPMENT: MACROMEDIA FIREWORKS
Use Macromedia Fireworks to create vectors; edit bitmaps; create, import, and edit text objects; create image maps, pop-up menus, navigation bars, rollovers, and animated GIF images. R E 3

CIM 282 3/3/0/3
NETWORK DEFENSE AND COUNTERMEASURES
Detailed examination of the tools, techniques, and technologies used in the technical securing of information assets. Provides in-depth information on the software and hardware components of information security and assurance. Topics include firewall configurations, hardening Unix and NT servers, Web and distributed systems security, and specific implementation of security models and architectures. R E 3

CIM 283 3/3/0/3
INFORMATION SECURITY MANAGEMENT
Detailed examination of a systems-wide perspective of information security, beginning with a strategic planning process for security. Includes an examination of the policies, procedures, and staffing function necessary to organize and administrate ongoing security functions in the organization. Subjects include security practices, security architecture and models, continuity planning, and disaster recovery planning. R E 3

CIM 284 3/3/0/3
SECURITY+
Provides a comprehensive overview of network security including authentication methods, common network attacks, safeguarding against attacks, remote access, email, the web, directory and file transfer, wireless data, various network devices and media, and proper use of perimeter topologies such as DMZs, Extranets, Intranets, cryptography basics, asymmetric and symmetric algorithms, and operational and organizational security. Geared for students pursuing CompTIA Security+ Certification. R E 3

CIM 286 3/3/0/3
INTRODUCTION TO COMPUTER AND VIDEO GAME DESIGN
Introduction to basic video game concepts and design: tools, languages, AI concepts, level design, storytelling, careers, relationship to technology (especially CPU/GPU), history and future. Tools examined: direct- (X, play and sound), Open GL and 3D Engines. Includes overview of scripting and programming languages used in game development. The evolution and future of game development is included. Theoretical concepts of good game design, AI, storytelling, and level design will be demonstrated. Includes discussion of effective individual and team play strategies. Virtual reality, mobile wireless gaming, immersion, and emotioneering will also be discussed. R E 1

CIM 287 3/3/0/3
BUSINESS PROGRAMMING--C#
Recommended Preparation: CIM 174A or 174
Emphasizes C# and object-oriented programming for software development of business applications. Includes familiarity with Visual Studio.NET as a development environment and introduction to all the .NET languages supported by the .NET framework. Introduces C# as an object-oriented language that makes extensive use of all object-oriented programming concepts such as inheritance, polymorphism, and overloading. Also includes class design and use, strict datatyping, method construction and use, and other programming concepts. R E 3

CIM 288 3/3/0/3
BUSINESS INTELLIGENCE DATA REPORTING
Recommended Preparation: CIM 2A and 271A
Provides students with the knowledge and skills to turn data into information through use of business intelligence tools such as Crystal Reports and Microsoft SQL Reporting Services. Students will create desktop reports using local databases and web based enterprise level reports from relation data engines such as SQL Server. R E 3

CIM 289 .5-4/.5-4/.5-9/.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 1

CIM 291A 3/3/0/1.5
MCSE CERTIFICATION EXAM PREP IX
Recommended Preparation: CIM 249 and 253
Covers Installing, Configuring, and Administering Windows Professional through simulations, practice tests, and feedback. Repeatable only when the MCSE exam number changes. R E 3

CIM 291B 3/3/0/1.5
MCSE CERTIFICATION EXAM PREP X
Recommended Preparation: CIM 291A
Covers Managing and Maintaining a Windows Network through simulations, practice tests, and feedback. Repeatable only when the MCSE exam number changes. R E 3

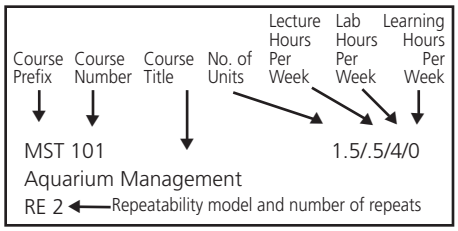
CIM 291C 3/3/0/1.5
MCSE CERTIFICATION EXAM PREP XI
Recommended Preparation: CIM 291B
Covers Implementing, Managing and Maintaining a Network Infrastructure through simulations, practice tests, and feedback. Repeatable only when the MCSE exam number changes. R E 3

CIM 291D 3/3/0/1.5
MCSE CERTIFICATION EXAM PREP XII
Recommended Preparation: CIM 291C
Covers Planning and Maintaining a Windows Network Infrastructure through simulations, practice tests, and feedback. Repeatable only when the MCSE exam number changes. R E 3

CIM 291E 3/3/0/1.5
MCSE CERTIFICATION EXAM PREP XIII
Recommended Preparation: CIM 291D
Covers Implementing an Active Directory Infrastructure through simulations, practice tests, and feedback. Repeatable only when the MCSE exam number changes. R E 3

CIM 291F 3/3/0/1.5
MCSE CERTIFICATION EXAM PREP XIV
Recommended Preparation: CIM 291E
Covers Designing an Active Directory and Network Infrastructure through simulations, practice tests, and feedback. Repeatable only when the MCSE exam number changes. R E 3

CIM 291K 3/3/0/3
MCSE CERTIFICATION EXAM PREP XV
MCSE Exam 70-620. Covers Installing, Configuring, and Administering Windows Vista through simulations, practice tests, and feedback. Repeatable only when the MCSE exam number changes. Assignment include 6 hours per week in IMC or other location for a 8 week course. R E 2



CIM 294 3/3/0/3
CYBERLAW
Assists information security personnel as well as business managers in recognizing the legal issues relevant to maintaining and doing business in an E-Commerce world. Covers relevant legal issues, applicable course decisions, federal and state statutes, administrative rulings, legal literature, and ethical considerations relating to internet law. R E 3

CIM 297 3/3/0/3
INTERCONNECTING CISCO NETWORK DEVICES
Interconnecting Cisco Network Devices (ICND) includes both routing and switching concepts, covering both Layer 2 and Layer 3 technologies. Focuses on using Cisco Catalyst switches and Cisco routers connected in local area networks (LANs) and wide area networks (WANs) typically found at small to medium network sites. Students will be able to select, connect, configure, and troubleshoot the various Cisco networking devices. R E 3

CIM 298 1.5/1.5/0/1.5
WEB DESIGN: CAPSTONE PORTFOLIO PROJECT
Recommended Preparation: CIM 272A
Enables the student to demonstrate the mastery of the learning objectives in the Webmaster, Web Designer, or E-Commerce Specialist programs. Guides the student through the process of developing a portfolio. Focuses on demonstration of the knowledge, skills, and techniques required to plan, develop, and implement a website. Includes discussion on advanced Flash sites and use of various technologies to develop a portfolio web site. To be taken in the final semester of the program. R E 3

Computer Maintenance Technology

CMT 215 3/3/0/0
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.

CMT 220 3/2/2/0
COMPUTER MAINTENANCE AND REPAIR I
Recommended Preparation: CIM 171 and 174
First course of two in the sequence covering the basics of computer maintenance and repair. Includes PC hardware overview, motherboards, microprocessors, power supplies, memory, hard disk drives, and floppy drives. Lab exercises with PCs give hands-on experience of the topics being studied. R E 3

CMT 225 3/2/2/0
COMPUTER MAINTENANCE AND REPAIR II
Recommended Preparation: CMT 220
Second course in the sequence covering the basics of computer maintenance and repair. Includes printers, modems and communication devices, video adapters and displays, sound cards, introductory network concepts, Windows software issues, computer security, and computer troubleshooting. Lab exercises provide hands-on experience of the topics being studied. R E 3

CMT 230 3/2/2/0
APPLIED NETWORK TECHNOLOGY
Recommended Preparation: CMT 225
Study of computer networks for technicians. Includes network wiring, connectors, repeaters, hubs, routers, bridges and their application to system specifications and the OSI model and its protocols. Installation, troubleshooting, and maintenance of computer networks and network hardware are emphasized in the laboratory. R E 3

CMT 235 3/3/0/0
A+ EXAM PREPARATION FOR COMPUTER SERVICE TECHNICIANS
Recommended Preparation: CMT 220, 225, 230
Preparation and review for the A+ Certification Exams for computer service technicians. Covers topics for all exams. Test taking strategies and practice tests will be covered. R E 3

CMT 289 .5-4/.5-4/.5-9/.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 1

Computer Science

CS 1A 3/3/0/6
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. 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 - currently C++. Repeatable one time only when programming language changes. R E 1

CS 1B 3/3/0/6
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, currently C++, 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. R E 1

CS 1C 3/3/0/6
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 - currently C++. Repeatable one time only when programming language changes. R E 1

CS 1D 3/3/0/6
DATA STRUCTURES
Recommended Preparation: CS 1B and 1C
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 (formerly CS 2B).

CS 3A 3/3/0/6
COMPUTER ORGANIZATION AND MACHINE LANGUAGE
Recommended Preparation: MATH 253 or 255; concurrent enrollment in CS 1B or any programming language course
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 3/3/0/6
COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE
Recommended Preparation: CS 1A
Develops the concepts of computer organization begun in CS 3A with an emphasis in assembly languages. The concepts covered include languages, operating systems, and multi-level machines.

CS 4A 3/3/0/6
INTRODUCTION TO JAVA FOR COMPUTER SCIENCE
Recommended Preparation: CS 1B
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 3/3/0/6
ADVANCED TOPICS IN JAVA FOR COMPUTER SCIENCE
Recommended Preparation: CS 4A
Advanced topics in Java including core class libraries, the swing components, the collections framework, multi- threading, servlets, JSP, RMI, JDBC, and software engineering concerns.

Cooperative Work Experience

CWE 180 1-4/0/60-300
COOPERATIVE WORK EXPERIENCE
Provides supervised work experience extending classroom- based occupational 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 (formerly CWE 168/169). R I 1

Cosmetology

COS 400A .25-12/6/18/0
COMPREHENSIVE COSMETOLOGY I
The first course in a program designed to prepare the student for the California State Board of Cosmetology Examination and success in a career as a cosmetologist. 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/ laboratory hours. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

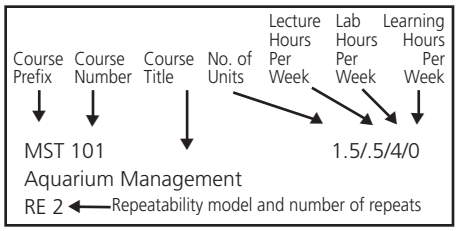
COS 400B .25-12/6/18/0
COMPREHENSIVE COSMETOLOGY II
Prerequisite: COS 400A or completion of 400 hours
A continuation of Cosmetology 400A. Twelve units are granted for the successful completion of 400 hours in class. A variable-unit course offered on an open-entry/ open-exit basis. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

COS 400C .25-12/6/18/0
COMPREHENSIVE COSMETOLOGY III
Prerequisite: COS 400B or completion of 800 hours
A continuation of COS 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 .25-12/6/18/0
COMPREHENSIVE COSMETOLOGY IV
Prerequisite: COS 400C or completion of 1200 hours
A continuation of COS 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 .25-11/4/21/0
MANICURING
A 400 hour course designed to exceed minimum California State Board of Cosmetology standards. Covers 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 .25-16/9/27.5/0
COSMETICIAN
A 600 hour course 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 manual and electrical facials, eyebrow arching and hair removal (other than by electrolysis), or become a make-up artist or skin care representative. The units earned for this course may not be applied toward the 60 units for graduation. R E 3



Cross Cultural Studies

CCS 1 3/3/0/0
MULTICULTURAL EXPERIENCES IN THE UNITED STATES

Examines the cultures of African Americans, Asian Americans, Chicanos(as)/Latinos(as), Middle Eastern Americans, and Native Americans. Focuses on the topics of racial/ethnic identity, family, religion, and rituals. Includes an examination of the relationships within and among cultural groups in the United States, and how they interact with the dominant culture.

CCS 2 3/3/0/0
MULTICULTURAL IDENTITIES IN THE UNITED STATES

Examines the cultures of African Americans, Asian Americans, Chicanos(as)/Latinos(as), Middle Eastern Americans, and Native Americans. Focuses on the topics of gender, sexuality/sexual orientation, work and class, dreams, healing, and education within each group. Includes an examination of the relationships within and among cultural groups in the United States, and how they interact with the dominant culture.

CCS 10 3/3/0/0
MARGINS AND BORDER CROSSINGS

Focuses on the experiences of those who negotiate cultural borders: boundaries of race, ethnicity, ability, locality, religion, gender, class, and sexuality/sexual orientation, with an examination of the borderlands between cultures and how people "manage" crossing those spaces. Readings will be taken from literature, psychological, sociological, historical, anthropological, and biographical texts.

CCS 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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CCS 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Dance

DANC 9 3/2/2/0
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

DANC 10 1 or 2/0/3 or 6/0
DANCE PRODUCTION

Analysis of the elements of choreography, development of solo and group choreographic composition, staging dances, and performances. R E 3

DANC 11 1 or 2/0/3 or 6/0
DANCE REHEARSAL AND PERFORMANCE

Emphasizing the preparation and rehearsal of choreographic composition for public performance. R E 3

DANC 51
1 or 1.5/.67 or 1/1.33 or 2 /0
INTRODUCTION TO BALLET

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. Emphasizes class participation providing the student with knowledge and understanding of the physical demands of ballet dance. A combination of DANC 51, 52, and 53 may be taken four times. R A 3

DANC 52
1 or 1.5/.67 or 1/1.33 or 2/0
BALLET DANCING LEVEL I

Recommended Preparation: DANC 51

Designed to teach the fundamentals of ballet. Technical work at the ballet barre, center-floor exercises, adagio, and allegro work. A combination of DANC 51, 52, and 53 may be taken four times. R A 3

DANC 53
1 or 1.5/.67 or 1/1.33 or 2/0
INTERMEDIATE BALLET

Recommended Preparation: DANC 52

Emphasis on improving individual skills. Continued technical work at the ballet barre. A combination of DANC 51, 52, and 53 may be taken four times. R A 3

DANC 54
1 or 1.5/.67 or 1/1.33 or 2/0
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 DANC 54, 55, and 56 may be taken four times. R A 3

DANC 55
1 or 1.5/.67 or 1/1.33 or 2/0
MODERN DANCE LEVEL I

Recommended Preparation: DANC 54

Instruction and supervised practice to develop the body for communication of feeling and idea through movement. A combination of DANC 54, 55, and 56 may be taken four times. R A 3

DANC 56
1 or 1.5/.67 or 1/1.33 or 2/0
INTERMEDIATE MODERN DANCE

Recommended Preparation: DANC 55

Increased techniques in modern dance with emphasis on improving individual skills. Continued development of the body for communication through movement. A combination of DANC 54, 55, and 56 may be taken four times. R A 3

DANC 57
1 or 1.5/.67 or 1/1.33 or 2/0
INTRODUCTION TO JAZZ DANCING

Designed for students with no experience in dance, as well a 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 DANC 57, 58, and 59 may be taken four times. R A 3

DANC 58
1 or 1.5/.67 or 1/1.33 or 2/0
JAZZ DANCING LEVEL I

Recommended Preparation: DANC 57

Basic jazz techniques, center and locomotor combinations, and original routines set to jazz music. A combination of DANC 57, 58, and 59 may be taken four times. R A 3

DANC 59
1 or 1.5/.67 or 1/1.33 or 2/0
INTERMEDIATE JAZZ DANCING
Recommended Preparation: DANC 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 DANC 57, 58, and 59 may be taken four times. R A 3

DANC 60
1 or 1.5/.67 or 1/1.33 or 2/0
INTRODUCTION TO TAP DANCING
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 with presentations 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 tap dancing. A combination of DANC 60, 61, and 62 may be taken four times. R A 3

DANC 61
1 or 1.5/.67 or 1/1.33 or 2/0
TAP DANCING LEVEL I
Recommended Preparation: DANC 60
Basic tap-dance techniques, tap-dance combinations, and original tap dances. A combination of DANC 60, 61, and 62 may be taken four times. R A 3

DANC 62
1 or 1.5/.67 or 1/1.33 or 2/0
INTERMEDIATE TAP DANCING
Recommended Preparation: DANC 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 DANC 60, 61, and 62 may be taken four times. R A 3

DANC 63
1 or 1.5/.67 or 1/1.33 or 2/0
EXERCISE FOR DANCERS
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. R E 3

DANC 64 3/3/0/0
HISTORY OF DANCE
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.

DANC 65
1 or 1.5/.67 or 1/1.33 or 2/0
PILATES CONDITIONING
Fundamentals of mat exercise emphasizing the principles of Joseph Pilates. Exercises to improve abdominal and back strength, flexibility, and postural alignment. Pilates involves integrating the physical and mental aspects of movement to correct imbalances in the body. Enhancement in any movement-based program, such as dance, sports, or exercise programs. Challenging to all fitness levels. Proper breathing techniques are emphasized. Also listed as KNES 65, credit given in either area, not both. R E 3

DANC 66
1 or 1.5/.67 or 1/1.33 or 2/0
LATIN DANCE
Explores the international forms of Latin dance such as salsa, tango, mambo, paso doble. Combinations will be presented to gain strength, coordination and agility. R E 3

DANC 67
1 or 1.5/.67 or 1/1.33 or 2/0
POINTE BALLET
Recommended Preparation: DANC 53
Advanced ballet training with pointe technique. Emphasis on improving individual ballet skills. Pointe technique at the ballet barre and center-floor with adagio and allegro exercises. R E 3

DANC 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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DANC 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Drafting

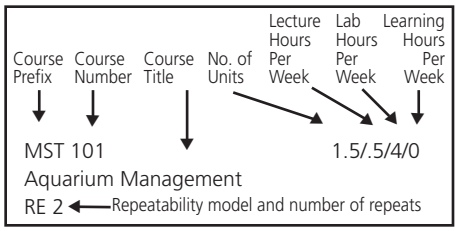
DR 23 3/1.5/4.5/0
ENGINEERING GRAPHICS AND DESCRIPTIVE GEOMETRY
Recommended Preparation: DR 100 or one year of high school mechanical drafting
Principles of communicating graphically using sketching and drafting of multiview projections, auxiliary views, and working drawings, including dimensions. Descriptive geometry is used to obtain points, lines, planes, intersections and developments, and spatial relationships. A computer-aided drafting (CAD) system is used.

DR 50 3/2/4/0
INTRODUCTION TO COMPUTER-AIDED DRAFTING
Recommended Preparation: ARCH 124A or DR 100
Introductory course covering the operation and application of computer-aided drafting (CAD) systems used to create, modify, store, and plot technical drawings. Also listed as ARCH 50. Credit given in either area, not both.

DR 51 3/2/4/0
COMPUTER-AIDED DRAFTING
Recommended Preparation: DR or ARCH 50
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 ARCH 51. Credit given in either area, not both.

DR 100 3/1.5/4.5/0
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.

DR 101 3/1.5/4.5/0
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 sections, first and second auxiliary views, advanced dimensioning, tolerancing, and further development of mechanical drawing skills.



DR 102 3/1.5/4.5/0
MECHANICAL DRAFTING AND DESIGN
Recommended Preparation: DR 101
Develops basic skills needed for industrial-level mechanical drawing and conceptual design including assembly drawings, detail drawings, fundamentals of mechanical design, and strategies for creative design.

DR 120 2/1/3/0
FUNDAMENTALS OF TECHNICAL ILLUSTRATION
Recommended Preparation: DR 100
Introduction to technical illustration, including oblique and isometric pictorial drawings and shading.

DR 152 3/2/4/0
ADVANCED COMPUTER-AIDED DRAFTING
Recommended Preparation: DR or ARCH 50 or 51
Advanced computer-aided design and drafting with emphasis on advanced CAD knowledge and skills in the completion of technical drawings which reflect industry standards. Also listed as ARCH 152. Credit given in either area, not both.

DR 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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DR 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Ecological Restoration

ECOL 201 4/3/3/0
ECOLOGICAL RESTORATION TECHNIQUES
Introduces students to specific theory and techniques for ecological restoration in a variety of habitats. Laboratory exercises will include site visits to restoration projects.

ECOL 202 4/3/3/0
ADVANCED ECOLOGICAL RESTORATION TECHNIQUES
An advanced course in practical and theoretical ecological restoration techniques. Political, social, and scientific considerations in restoration will be discussed. Laboratory exercises will include field techniques for planting, irrigating, and monitoring restoration sites.

Economics

ECON 2 3/3/0/0
PRINCIPLES (MACRO)
Economic analysis of theories of income determination including national income measurement, unemployment, inflation, economic growth, monetary and fiscal policy, banking and money creation, and international finance. Explores consumption, saving, investment, government spending, exports, and imports.

ECON 4 3/3/0/0
PRINCIPLES (MICRO)
Prerequisite: MATH 251
Economic analysis of resource use and the production and distribution of goods and services by markets and other allocation mechanisms. Topics include: supply and demand, economic decision-making, imperfect competition, antitrust, regulation, environmental economics, the distribution of income, efficient resource use, international trade, and efficiency vs.. other criteria for judging microeconomic success.

ECON 6 3/3/0/0
SCARCITY AND ENVIRONMENT
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 ENV 6. Credit given in either area, not both.

ECON 11 3/3/0/0
INTERNATIONAL POLITICAL ECONOMY
Focuses on the relations between the political and economic systems within the global economy. 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, Russia, China, and the United States. Also listed as PS 11. Credit given in either area, not both.

ECON 20 3/3/0/0
THE AMERICAN ECONOMY
A general education course surveying the American economy from both microeconomic and macroeconomic perspectives. intended for non-majors and those preparing to take ECON 2 and 4. Topics include business cycles; unemployment; inflation; international trade; income distribution; market structure and performance; and the economic behavior of firms, households, and government.

ECON 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Education

EDUC 90 3/3/0/0
EXPLORATIONS IN K-12 EDUCATION
Recommended Preparation: ENG 200 and 340, CD 7/PSYC 7
Explores careers in the teaching profession in a broad context, both from an academic understanding as well as from experience garnered through 45 hours in K-12 classrooms and schools. This course meets new Elementary Subject Matter Preparation requirements for students who are considering a teaching career. Provides for early and frequent opportunities to engage in field experiences that are linked to college and university coursework (formerly CDES 90). DS5

EDUC 115 4/3/3/0
PRINCIPLES OF CAREER/TECHNICAL PREPARATION FOR HIGH SCHOOL
Explores programs and teaching careers for high school vocational and technical preparation courses. Provides an opportunity for students interested in pursuing a career in secondary education to shadow teachers and engage in paid internship in local high school tech prep classes. Includes exploration of personal and professional views of teaching, tech prep subject matter standards, methods and practices of teaching and learning, classroom management, creation of lesson plans, student assessment methods, working with diverse populations, and career pathways for vocational/ technical preparations educators.

EDUC 118 3/3/0/0
EXCEPTIONAL CHILDREN
Recommended Preparation: ENG 200 and 340
An introduction to special education. Offers a survey and study of various characteristics of exceptional children. The primary focus will be on the categories of children with disabilities, but will include children at risk, and children from culturally diverse backgrounds (formerly CDES 118). DS5

EDUC 131 3/3/0/0
EDUCATIONAL PSYCHOLOGY
Recommended Preparation: ENG 200 and 340
Focuses on the basic principles of psychology that are pertinent to education, including abilities, intelligence, social and emotional factors, and principles of learning (formerly CDES 131). DS5

EDUC 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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EDUC 200 2/2/0/0
INTRODUCTION TO ONLINE TEACHING AND LEARNING
An introduction to the design and delivery of online courses. Concepts covered include the characteristics of online education, course development and organization, creating an online community, the roles of the teacher and learner in an online environment, synchronous vs. asynchronous learning, Blackboard course design, accessibility, use of the web for instruction, and the use of innovative technology for online instruction.

EDUC 205 2/2/0/0
TEACHING MODELS OF ONLINE INSTRUCTION
Recommended Preparation: EDUC 200
An exploration of successful teaching and learning models for online courses, from highly interactive models to independent study. Centers on the development of course organization strategies, resources for innovative practice, and application of various teaching strategies to different discipline areas. Award winning and model courses will be explored and evaluated.

EDUC 210 2/2/0/0
TECHNOLOGY FOR ONLINE INSTRUCTION
Recommended Preparation: EDUC 200
Provides an introduction to current software applications that can be used in the design of student centered interactive assignments within Blackboard and other course management systems. Emphasis will be on the use of common and emerging technologies to deliver content and engage learners.

EDUC 215 2/2/0/0
CURRICULUM DESIGN FOR ONLINE INSTRUCTION
Recommended Preparation: EDUC 200
Explores the theory and practice of developing effective curricula and instructional methods to engage and motivate students, build classroom community, and enhance the online learning experience. Centers on the development of course objectives and student learning outcomes, and how these can be achieved in online environments through instructor facilitation, use of technology, and curriculum design.

EDUC 220 2/2/0/0
UNIVERSAL DESIGN FOR ONLINE INSTRUCTION
Recommended Preparation: EDUC 200
An introduction to Universal Design and accessibility issues in the development and evaluation of online courses. Topics covered include Universal Design practices, ADA standards, and 508 requirements. Emphasis will be on strategies used to create 508 compliant learning environments for online students.

EDUC 225 2/2/0/0
STUDENT ASSESSMENT METHODS FOR ONLINE INSTRUCTION
Recommended Preparation: EDUC 200
Focuses on the diverse array of student assessment methods that can be used in online classes. Emphasis on the design and implementation of effective measures of student learning.

EDUC 230 4/3/3/0
PRACTICUM: ONLINE INSTRUCTION
Recommended Preparation: EDUC 200, 205, 210, 215, 220, 225
Student teachers will participate in 150 hours of supervised practical experience to demonstrate professional teaching competencies for online instructors and make connections between theory and practice. Professional behaviors, development of relevant course materials, participation in classroom community, and other teaching and non-teaching responsibilities will be practiced as students design, implement and evaluate experiences that promote positive development and learning for online students.

EDUC 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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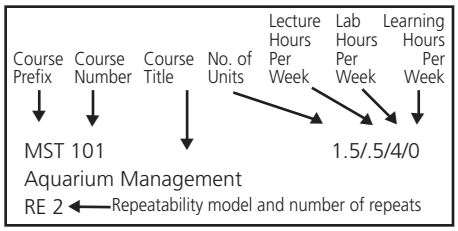
Electronic Technology

ET 101 3/3/0/0
SURVEY OF ELECTRONICS
Introduction to electronics for non-majors or those exploring possible interest in the field. Covers the basics of electronics.

ET 114 4/3/3/0
DIGITAL ELECTRONIC CIRCUITS
Recommended Preparation: ET 133
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 4/3/3/0
ELECTRONIC COMMUNICATION SYSTEMS
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 133 4/3/3/0
DC AND AC FUNDAMENTALS
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, resonance, and passive filters. Laboratory experiments utilize common test equipment such as the digital multimeter, power supply, function generator, and oscilloscope.

ET 135 4/3/3/0
SEMICONDUCTOR DEVICES AND CIRCUITS
Recommended Preparation: ET 133
Fundamentals of semiconductor devices and circuits, both discrete and integrated. Includes diodes, transistors, amplifiers, thyristors, operational amplifiers, active filters, oscillators, and voltage regulators. Lab exercises include building and testing devices and circuits studied.

ET 189 .5-4/.5-4/.5-9/.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 1

ET 200 4/3/3/0
DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS
Recommended Preparation: ET 114
Fundamentals of digital signal processing, microcontrollers, and other advanced digital circuits, including related hardware, software, testing, and troubleshooting. Lab exercises including building and testing circuits and devices studied. R E 3

ET 201 2/1.5/1.5/0
ROBOTICS FUNDAMENTALS
Fundamentals of robotics, including hardware, software, testing, and troubleshooting. Study of the basics of the major hardware and software of a small robot while building and programming it for various activities. R E 3

ET 289 .5-4/.5-4/.5-9/.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 1

Emergency Medical Technology

EMT 205 6/6/0/0
EMERGENCY MEDICAL TECHNICIAN PROCEDURES
Limitation: Current BLS HCP required by Title 22, physical exam, and background check required by JCAHCO
Corequisite: EMT 205L
A fundamental theory 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 99

EMT 205L .5/0/1.5/0
EMERGENCY MEDICAL TECHNICIAN LAB
Corequisite: EMT 205
Course in EMT-Basic skills required for licensure as an EMT. Includes skills practice and performance evaluation in assessing and recording vital signs, airway management, ventilation, trauma and medical patient assessment, extremity and spinal immobilization skills, management of bleeding wounds, shock, and obstetrical patients. R 99

EMT 210 1.25/1/.75/0
REFRESHER COURSE FOR EMERGENCY MEDICAL CARE
Recommended Preparation: EMT 205
A refresher course to meet the state EMT-B recertification requirement. Reviews life support measures, use of emergency medical equipment, and cardiopulmonary resuscitation. R 99

EMT 219 4/4/0/0
PARAMEDIC PREPARATION
Recommended Preparation: EMT 205
Designed for the certified EMT-1 seeking to enter a paramedic program in the future. Reviews common medical emergencies, adult and pediatric advanced life support skills, emergency pharmacology, trauma management and an overview of the written and practical tests used in California for the paramedic license. Integrates anatomy and physiology content in the assessment and treatment of the ill and injured.

EMT 289 .5-4/.5-4/.5-9/.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 1

Engineering

ENGR 31 3/3/0/0
STATICS
Prerequisite: PHYS 4A
Statics is the study of force systems under equilibrium conditions. Force systems are analyzed for trusses, frames, and machines which are subjected to concentrated, distributed, and frictional forces. Graphical and mathematical methods of analysis are used, including virtual-work.

ENGR 33 4/3/3/0
ELECTRIC CIRCUIT ANALYSIS
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, Thevenin'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.

English

ENG 1A 3/3/0/0
PRINCIPLES OF COMPOSITION I
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, increasing in level of difficulty and in length, are developed through a process approach, including prewriting and peer-editing techniques.

ENG 1B 3/3/0/0
PRINCIPLES OF COMPOSITION II
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 3/3/0/0
INTRODUCTION TO CREATIVE WRITING
Prerequisite: Eligibility for enrollment or completion of ENG 1A
Emphasizes the writing of prose, poetry, and drama stressing critical judgment of these forms.

ENG 4 3/3/0/0
FICTION FUNDAMENTALS
Prerequisite: Eligibility for enrollment or completion of ENG 1A.
Teaches the fundamentals of storytelling or narrative art. R E 1

ENG 5 3/3/0/0
POETRY FUNDAMENTALS
Prerequisite: Eligibility for enrollment or completion of ENG 1A
Recommended Preparation: ENG 3
Designed to explore the traditional and modern forms of poetry. Students will write poems in each of these forms and broaden their understanding of the nature and use of figurative language. R E 1

ENG 7 3/3/0/0
CREATIVE WRITING: SCRIPTWRITING
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 3/3/0/0
SURVEY OF AMERICAN LITERATURE: 1620-1860
Recommended Preparation: Eligibility for ENG 1A
Emphasizes major ideas, authors, and forms in American literature during the 17th, 18th, and early 19th centuries.

ENG 15B 3/3/0/0
SURVEY OF AMERICAN LITERATURE: 1860-CONTEMPORARY
Recommended Preparation: Eligibility for ENG 1A
Emphasizes major ideas, authors, and forms from the late 19th century to the present.

ENG 17A 3/3/0/0
SURVEY OF ENGLISH LITERATURE: BEOWULF TO ROMANTIC MOVEMENT
Recommended Preparation: Eligibility for ENG 1A
Covers 9th century to 1796: Anglo-Saxon, Medieval, Tudor, Renaissance, 17th century and Neoclassical literature. Literature will be discussed in relation to social and political backgrounds.

ENG 17B 3/3/0/0
SURVEY OF ENGLISH LIT: ROMANTIC MOVEMENT TO THE PRESENT
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 3/3/0/0
SHAKESPEARE: THE TRAGEDIES
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 genre of English Renaissance tragedy.

ENG 19 3/3/0/0
SHAKESPEARE: THE COMEDIES
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 3/3/0/0
SHAKESPEARE: THE HISTORIES
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 3/3/0/0
WORLD LITERATURE: ANCIENT TO 17th CENTURY
Recommended Preparation: Eligibility for ENG 1A
A survey of major authors and literary forms from antiquity to 17th century from world cultures.

ENG 21B 3/3/0/0
WORLD LITERATURE: 17TH CENTURY TO MODERN PERIOD
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.

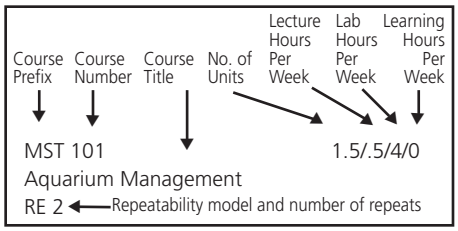
ENG 23A 3/3/0/0
AMERICAN ETHNIC WRITING: AFRICAN AMERICAN LITERATURE
Recommended Preparation: Eligibility for ENG 1A
Concerned with exploring the writing of African- Americans, their viewpoints, styles, forms, and themes.

ENG 24 3/3/0/0
ETHNIC VOICES IN LITERATURE: THE AMERICAN EXPERIENCE
Recommended Preparation: Eligibility for ENG 1A
Examines literary works of African-American, Native-American, Asian-American, and Latino/Hispanic authors. Focuses on such themes as the American experience; self and family, self and religion, self and culture, self and nature; cultural conflict; war and peace. Compares and contrasts the styles and techniques of the authors. Focuses on social, philosophical, spiritual, and ethical values of the literature. Develops criteria for evaluating literature.

ENG 25 3/3/0/0
INTRODUCTION TO LITERATURE
Recommended Preparation: Eligibility for ENG 1A
Examines the basic nature of imaginative literature and the techniques used by informed readers to increase their understanding of and gain insight into works of fiction, drama, and poetry. Some consideration will be given to the concepts and techniques of major critical theories, but the focus will be on practical criticism for the nonspecialist. Specific works studied will be representative of several genres, cultures, and periods.

ENG 27A 3/3/0/0
INTRODUCTION TO THE NOVEL
Recommended Preparation: Eligibility for ENG 1A
Surveys American, British, French, and Russian novels emphasizing form, content, philosophical and historical perspectives, and criticism.

ENG 27B 3/3/0/0
INTRODUCTION TO DRAMA
Recommended Preparation: Eligibility for ENG 1A
Surveys representative plays in the evolution of dramatic literature emphasizing form, content, philosophical and historical perspectives, and criticism. Emphasizes critical approaches to dramatic texts. Examines issues such as plot construction, characterization, use of language in drama. Includes study of drama from ancient Greeks to contemporary, including Western and non-Western traditions. Attendance at plays may be required.



ENG 27E 3/3/0/0
INTRODUCTION TO THE SHORT STORY
Recommended Preparation: Eligibility for ENG 1A
Surveys American, British, and other selected short stories, emphasizing form, content, philosophical and historical perspectives, and criticism.

ENG 44 3/3/0/0
CLASSICAL MYTHOLOGY
Recommended Preparation: Eligibility for ENG 1A
A study of Greek and Roman myths and legends based upon the most scholarly research and most accurately translated texts extant. Emphasizes the historical sources and the cultural functions in the ancient societies of the myths and legends and their continuing impact upon modern thought.

ENG 50 3/3/0/0
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 with an emphasis on American women writers of diverse heritages. 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 3/3/0/0
THE FILM AS LITERATURE
Recommended Preparation: Eligibility for ENG 1A
Examines foreign and domestic film as a literary art form focusing on the analysis of film techniques that convey standard literary conventions to an audience.

ENG 65 3/3/0/0
BUILDING ENGLISH VOCABULARY THROUGH GREEK AND LATIN ROOTS
Course 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 3/3/0/0
WRITING SHORT STORIES
Recommended Preparation: Eligibility for ENG 1A; ENG 3
Writing the short story with an emphasis on contemporary publishing standards and an examination of the theories behind this process. R E 1

ENG 107 3/3/0/0
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 110 3/3/0/0
INTRODUCTION TO LANGUAGE AND LINGUISTICS
Recommended Preparation: ENG 1A
An introduction to the study of language, examining its structure, acquisition, and use. Focuses primarily on features of English, though examples may be derived from other languages.

ENG 117 3/3/0/0
ADVANCED SCRIPTWRITING
Prerequisite: ENG 7
Recommended Preparation: ENG 3 or 4 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 142 3/3/0/0
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 pre-school to junior high age, major authors and illustrators of children's books. 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.

ENG 160 3/2/2/0
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 3/3/0/0
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 3/3/0/0
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 .5-4/.5-4/.5-9/.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 1

ENG 190 3/3/0/0
ACADEMIC READING: SUCCESS AND STRATEGIES FOR COLLEGE
Designed to improve students' abilities for college-level work. Introduces various Learning strategies to improve textbook reading as applied to all stages of academic reading. Critical thinking, summary writing, note-taking and test taking skills will be stressed, as well as time budgeting and memory techniques. R E 2

ENG 200 3/3/0/0
FUNDAMENTALS OF COMPOSITION
Prerequisite: Satisfactory score on the English Placement Examination or completion of ENG 300, 340, or comparable course with a grade of "C" or better
Concentrates 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 267 3/3/0/0
NOVEL WORKSHOP: REVISING MANUSCRIPTS FOR PUBLICATION
Recommended Preparation: Eligibility for ENG 1A or 3
An intensive analysis of the elements of dramatic fictional structure through student examination of works in progress. Revision of manuscripts to meet contemporary publication standards. Students enrolled in this course should be presently working on a novel or story-based manuscript. R E 3

ENG 289 .5-4/.5-4/.5-9/.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 1

ENG 300 3/3/0/0
BEGINNING WRITING
Corequisite: ENG 301
A beginning-level writing course designed to develop writing fluency through instruction in the writing process-- pre-writing, drafting, revising, editing--as well as the rules of Standard Written English. Students will learn to communicate a serious idea to an audience by writing short essays, both in and out of class, based on their experiences. Improves ability to derive information from a text, summarize short essays, support a thesis statement with details and examples, and apply the rules of punctuation and grammar to original writing. R E 1

ENG 301 .5/0/1/0
BEGINNING WRITING LAB
Corequisite: ENG 300
This lab is designed to complement the writing techniques taught in ENG 300, Beginning Writing. Four modules will include the following: prewriting; paragraph development; sentence combining; grammar, usage, and punctuation. R E 1

ENG 310 .5/0/0/1.5
WRITING CENTER
The Writing Center is designed to be taken in conjunction with any college course requiring written assignments inclusive of but not limited to, courses in the social and behavioral sciences; liberal arts; health sciences; and fine arts. Emphasizes individualized instruction and writing skills. Specific course content varies with student need and ability. This course is offered as an open entry/ open exit course. This course is offered on a credit/no credit basis. R E 3

ENG 311 3/3/0/0
ENGLISH MECHANICS AND GRAMMAR
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 315 1/1/0/0
GEARING UP FOR COLLEGE READING
Corequisite: ENG 316
Designed to help recent high school graduates develop effective reading skills and strategies necessary to succeed in college courses. Concentrates on developing techniques for preview skimming, locating the main ideas, details, and conclusions as well as developing vocabulary and test taking strategies. Primarily focuses on reading college textbooks.

ENG 316 1/1/0/0
GEARING UP FOR COLLEGE WRITING
Corequisite: ENG 315
Designed to help recent high school graduates develop an overview of effective college writing skills. Concentrates on developing pre-writing, writing, proofreading, and editing techniques. Special emphasis will be placed on choosing and narrowing a topic, making a scratch outline, constructing a thesis statement, building a paragraph, and finding typical errors in grammar and punctuation.

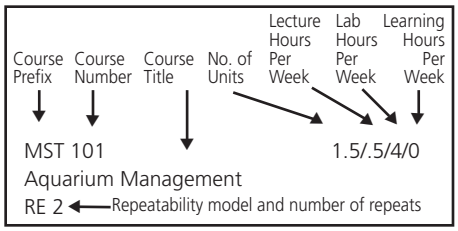
ENG 332 .5/0/0/1.5
READING AND VOCABULARY SKILLS LABORATORY-ESL
A lab designed for ESL students to supplement courses requiring English language proficiency, inclusive of courses in, but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction responding to diagnosed needs or problems and on practice to improve language-related skills. Areas to be covered include spelling, reading comprehension, textbook reading, and vocabulary development. This is an open-entry/open-exit class. This course is offered on a credit/no credit basis. R E 3

ENG 333 .5/0/0/1.5
READING SKILLS LABORATORY
A lab designed as a supplement to any college course requiring proficiency in reading inclusive of but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction and practical application in order to strengthen and reinforce student skills in one or more of the following areas: rate and comprehension, vocabulary, spelling, and study skills. This is an open-entry/ open-exit class. This course is offered on a credit/no credit basis. R E 3

ENG 334 2/2/0/0
SPELLING SKILLS FOR COLLEGE
Corequisite: ENG 335
Designed to help students identify individual spelling deficiencies and learn basic spelling rules. The causes of spelling errors and correct pronunciation will be discussed. Through classroom instruction, lab use and testing, students will learn to sharpen their spelling ability.

ENG 335 .5/0/1/0
SPELLING LABORATORY
Corequisite: ENG 334
Designed to complement the spelling skills taught in ENG 334. This lab includes diagnosis of individual spelling deficiencies and through individualized instruction, students will sharpen their spelling skills. R E 1

ENG 336 1/0/0/3
EXPANDED READING SKILLS LAB
A lab designed as a supplement to any college course requiring proficiency in reading inclusive of but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on intensive in-depth development of reading comprehension skills, vocabulary and word usage, reading rate, spelling and study skills through an individualized program. This is an open- entry/open-exit class. Offered on a credit/no credit basis. R E 3



ENG 337 1/0/0/3
CRITICAL READING LABORATORY: ADVANCED READING SKILLS
Recommended Preparation: ENG 300 or 340
A lab designed as a supplement to any college course requiring proficiency in reading inclusive of but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individualized instruction and in-depth development of college-level critical reading skills. Students will focus on strengthening inferential, analytical, and evaluative critical reading skills, developing advanced vocabulary, and increasing reading rate and flexibility. This is an open- entry/ open-exit class. Offered on a credit/no credit basis. R E 3

ENG 340 3/3/0/0
READING SKILLS FOR COLLEGE
Corequisite: ENG 341
Designed to bring students' reading abilities and study skills to college-level proficiency. Emphasis is on individual help and careful progress to develop reading confidence and ease.

ENG 341 .5/0/1/0
READING LABORATORY
Corequisite: ENG 340
Designed to complement the reading skills taught in ENG 340, Reading Skills for College. This 16 week lab includes work in reading comprehension, reading rate, vocabulary, study skills, and writing. R E 1

ENG 389 .5-4/.5-4/.5-9/.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 1

English as a Second Language

ESL 320 0 or 3/6/0/0
BEGINNING MULTISKILLS I
Corequisite: ESL 999A
An introductory course in English for non-native speakers. Emphasis is on listening, speaking, survival skills, and introductory grammar. Reading and writing skills will be introduced. 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 not be repeated.

ESL 321 0 or 3/6/0/0
BEGINNING MULTISKILLS II
Corequisite: ESL 999
Recommended Preparation: ESL 320
Designed to further the fundamentals of communication competence in daily spoken English. Although the focus remains on listening comprehension and speaking, reading and writing skills are expanded and additional grammatical structures and verb forms are introduced. Continues the familiarization with customs and culture. 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 not be repeated.

ESL 322 0 or 2/3/0/0
BEGINNING CONVERSATION
Initiates the ESL conversation series with emphasis on everyday conversation. Topics encompass basic oral/aural skills students need 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 and may not be repeated.

ESL 323 0 or 1/2/0/0
BEGINNING PRONUNCIATION
Corequisite: ESL 999A
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 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 is not open-entry/open-exit and may not be repeated.

ESL 325 0 or 3/3/0/0
BEGINNING READING AND WRITING
Recommended Preparation: ESL 320
Designed for the non-native speaker of English focusing on beginning-level reading and writing skills. Emphasis in writing is on beginning-level sentence patterns, basic spelling, 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 not be repeated.

ESL 330 0 or 3/6/0/0
INTERMEDIATE MULTISKILLS I
Recommended Preparation: ESL 321
Designed for further development of listening, speaking, reading, and writing skills at a low intermediate level. Vocabulary acquisition and idiomatic expressions in the context of grammatical structures. 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 not be repeated.

ESL 331 0 or 3/6/0/0
INTERMEDIATE MULTISKILLS II
Recommended Preparation: ESL 330
Continues the refinement of language skills: reading, writing, speaking, and listening at an upper-intermediate level. Vocabulary expansion, idiomatic expression, and free conversation, in the context of grammatical structures. Content focuses on cultural topics pertaining to American life. 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 not be repeated.

ESL 332 0 or 2/3/0/0
INTERMEDIATE CONVERSATION
Recommended Preparation: ESL 321 or 322
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. 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 not be repeated.

ESL 333 0 or 2/3/0/0
INTERMEDIATE PRONUNCIATION
Corequisite: ESL 999A
Recommended Preparation: ESL 323
An intermediate-level pronunciation course designed for non-native speakers which enables students to recognize, distinguish, and produce the sounds and intonation patterns of American English. Students continue to develop confidence in speaking and comprehension through extensive practice, imitation, sound discrimination, dialogue, response, and reading. 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 not be repeated.

ESL 335 0 or 3/3/0/0
INTERMEDIATE READING AND WRITING I
Prerequisite: ESL 321
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 not be repeated. R 99

ESL 336 0 or 3/3/0/0
INTERMEDIATE READING AND WRITING II
Prerequisite: ESL 330 or 335
Corequisite: ESL 888
Designed for the non-native speaker of English focusing on high-intermediate-level reading and writing skills. Emphasis in writing is on gaining control of high-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 not be repeated.

ESL 340 0 or 3/6/0/0
ADVANCED MULTISKILLS
Recommended Preparation: ESL 331
Incorporates the academic skills necessary for the advanced ESL student to progress. Designed to complete the instruction of English grammar. Continues to develop skills and focus on writing skills at the sentence, paragraph, and multiple paragraph level. Informal and formal oral skills are incorporated into the body of the course. Listening comprehension is further developed preparing the student to enter mainstream courses and/or the work force. 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 not be repeated.

ESL 342 0 or 2/3/0/0
ADVANCED CONVERSATION
Recommended Preparation: ESL 331 or 332
Completes the ESL conversation series, aids the ESL student in fluency in both formal and informal conversation in American English within a variety of societal 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 is not open-entry/open-exit and may not be repeated.

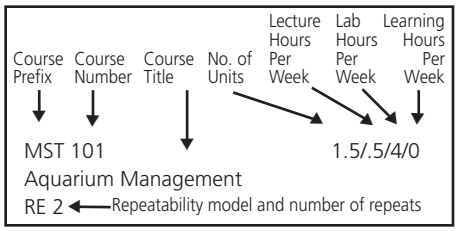
ESL 343 0 or 2/3/0/0
ADVANCED PRONUNCIATION
Corequisite: ESL 999B
Recommended Preparation: ESL 333
Completes the ESL pronunciation sequence. Emphasis on accent reduction, pronunciation accuracy, auditory discrimination, conversation techniques, and selective listening skills. Develops stress distinctions and intonation patterns in order to communicate intent and meaning. 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 not be repeated.

ESL 344 0 or 2/2/0/0
IDIOMS AND EXPRESSIONS IN AMERICAN ENGLISH
Recommended Preparation: ESL 331
An advanced vocabulary course focusing on the idioms and expressions of American English. Designed to help non-native speakers understand and use, in both speech and writing, common and useful English idioms and expressions. Introduces phrasal verbs and collocations. 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 not be repeated.

ESL 345 0 or 3/3/0/0
ADVANCED READING AND WRITING
Prerequisite: ESL 331 or 336
Corequisite: ESL 888
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 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 not be repeated.

ESL 346 0 or 3/3/0/0
ADVANCED WRITING FOR WORK
Recommended Preparation: ESL 331 or 336
Designed to improve non-native speakers' reading comprehension and written communication skills necessary for advanced-level work using "real world" texts. Students summarize examples of American business and technical communication, 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 also review sentence structure and grammar as needed. 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 not be repeated.

ESL 347 0 or 3/3/0/0
ADVANCED GRAMMAR REVIEW
Corequisite: ESL 999
Recommended Preparation: ESL 331
Begins the advanced, rapidly-paced grammar sequence for non-native speakers of English. Emphasis is on structures particularly difficult for non-native speakers such as the English verb system in all tenses and aspects, including passive voice, modals, and modal-like expressions. Writing of original sentences, applying correct structure and stresses appropriate punctuations. 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 not be repeated.



ESL 350 0 or 3/6/0/0
ESSENTIAL ACADEMIC SKILLS
Prerequisite: ESL 340 or 345
Designed to improve non-native speakers' reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. 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 not be repeated.

ESL 354 0 or 3/3/0/0
VOCABULARY SKILLS FOR COLLEGE
Recommended Preparation: ESL 340
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 is not open-entry/ open-exit and may not be repeated.

ESL 355 0 or 3/3/0/0
ESL READING FOR COLLEGE: AMERICAN LITERATURE
Recommended Preparation: ESL 340 or 345
Introduces advanced ESL students to techniques for understanding and appreciating excerpts and complete works of fiction, drama, and poetry by American writers. Students write summaries, journal entries, and character analyses and take part in 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 not be repeated.

ESL 357 0 or 3/3/0/0
GRAMMAR REVIEW FOR COLLEGE
Corequisite: ESL 999
Recommended Preparation: ESL 331, 347
Completes the advanced, rapidly-paced grammar sequence for non-native speakers of English. Emphasis is on structures particularly difficult for speakers of English as a second language such as gerunds and infinitives in both active and passive voice, and noun, adjective, and adverb clauses, including clauses of condition. Writing of original compound and complex sentences with appropriate transitions and punctuation is 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 not be repeated.

ESL 358 0 or 3/3/0/0
LISTENING AND NOTE-TAKING SKILLS FOR COLLEGE
Recommended Preparation: ESL 340
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 is not open-entry/open-exit and may not be repeated.

ESL 359 0 or 3/3/0/0
AMERICAN LANGUAGE AND CULTURE THROUGH FILM
Recommended Preparation: ESL 331
In this content-based course, students are introduced to selected periods of American history and aspects of American culture through film. Discussion and writing assignments are based on background readings which complement these films. Film provides students with visual, kinesthetic and auditory modes of learning which makes it a highly effective method of enhancing second or foreign-language acquisition. It also offers opportunities to learn idiomatic expression, pronunciation and vocabulary as well as improve listening comprehension while gaining insight into American culture. 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 not be repeated.

ESL 389 .5-4/.5-4/.5-9/.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 1

ESL 888 0 or .5/0/1/0
ESL SKILLS LAB
Corequisite: ESL 336, 345
Requires concurrent enrollment in designated ESL reading courses. Enhances and provides practice in skills learned in ESL reading and writing courses. R 99

ESL 999 0/0/0/1
ESL LABORATORY
Corequisite: ESL 320, 321, 323, 333, 343, 347, 357
Requires concurrent enrollment in designated ESL courses. Enhances and provides practice in skills learned in ESL courses. R 99

ESL 999A .25/0/0/1
ESL LABORATORY
Corequisite: ESL 320. 321, 323, 333
Requires concurrent enrollment in designated ESL courses. Enhances and provides practice in skills learned in ESL courses. R E 3

ESL 999B .25/0/0/1
ESL LABORATORY
Corequisite: ESL 343, 347, 357
Requires concurrent enrollment in designated ESL courses Enhances and provides practice in skills learned in ESL courses. R E 3

Environmental Studies

ENV 1 3/3/0/0
INTRODUCTION TO ENVIRONMENTAL STUDIES
Introduction to environmental studies that includes an overview of human activities within the global ecosystem. Examines population growth, energy use, agricultural techniques, water quantity and quality, biodiversity, air quality, and waste disposal, and searches for solutions while exploring future options.

ENV 6 3/3/0/0
SCARCITY AND ENVIRONMENT
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 4/3/3/0
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.

ENV 19 4/3/3/0
MARINE BIOLOGY
Recommended Preparation: College-level biology course (BIO 20)
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 given in either area, not both.

ENV 23 4/3/3/0
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 given in either area, not both.

ENV 24 3/2/3/0
NATURAL HISTORY OF CALIFORNIA
Acquaints the student with the basic physical and biological aspects of the coastal, valley, mountain, and desert environments of California. Field trips are required to fulfill the objectives of the course.

ENV 25 3/3/0/0
ENVIRONMENTAL HAZARDS TO HEALTH
Provides an overview of the relationship between environmental pollutants and human health. Includes the general principles of water, soil, and air pollution, of chemical and radiation poisoning, of hazardous waste management and environmental change and of other hazards that challenge human health and well-being.

ENV 30 3/3/0/0
ALTERNATIVE ENERGY TECHNOLOGIES
An introductory course presenting alternative energy policies and technologies that include geothermal, solar, hydroelectric, nuclear, biomass, and wind power. Problems of control, costs, pollution, and potential health hazards will be presented from both political and technical perspectives.

ENV 40 3/3/0/0
ENVIRONMENTAL LAW AND POLICY
A survey course of US environmental law, including environmental assessment, clean air, clean water, waste management, and endangered species. Considers questions of how best to regulate, the role of citizens in environmental protection and law, the values, science, and policy that influence environmental law, and new approaches to environmental protection. R E 3

ENV 105 2/1/2/0
ENVIRONMENTAL STUDIES INTERNSHIP
Corequisite: CWE 180
Recommended Preparation: ENV 1
Combines on-campus instruction with in-depth work experience at environmental organizations, local municipalities, public agencies, private environmental facilities or student initiated project. R E 3

ENV 106 3/3/0/0
NATURAL RESOURCE CONSERVATION
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 utilizations, and contemporary natural resource use. Contemporary conservation solutions will be investigated.

ENV 120 4/3/3/0
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 given in either area, not both.

ENV 123 3/3/0/0
WATER AND SOIL CONSERVATION
Evaluation of major water and soil conservation programs and practices, principles of water and soil degradation by erosion, ground water overdraft, chemical transport, climate, topography, and land usage. Examination of the effects of water and soil pollution on population growth, food production, the environment, the economy, and policy. Also listed as HORT 123. Credit given in either area, not both.

ENV 189 .5-4/.5-4/.5-9/.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 1

ENV 200 2/1/2/0
VOLUNTEER NATURALIST TRAINING
Prepares individual to lead interpretive tours at a variety of Orange County wilderness areas for various agencies and organizations. Subject matter includes familiarity of plants, animals, ecology, geology, and cultural history of the region. Useful for those interested in becoming a park docent. R E 1

ENV 202 2/2/0/0
GREEN LIVING
Practical solutions that can be implemented in daily life in order to reduce one's ecological footprint on the planet. Includes an overview of the current global environment and practical solutions in reducing environmental impact. R E 3

ENV 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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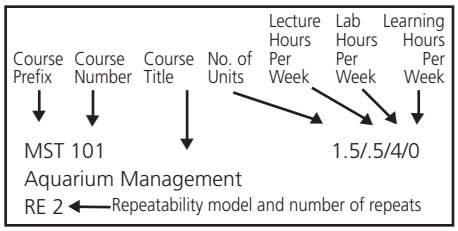
Fashion

FASH 31 3/2/3/0
TEXTILES
Fabric selection and care considering fibers, yarns, weaves, knits, 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 given in either area, not both.

FASH 100 3/2/2/0
FASHION SEWING-BEGINNING
Choosing correct fabrics and patterns, constructing garments using basic sewing techniques, and operating a home and industrial sewing machine. Designed for students with little or no sewing skill. Combination of the FASH 100, 111, and 112 may be taken a maximum of four times. R A 3



FASH 101 3/3/0/0
INTRODUCTION TO FASHION CAREERS
Explores the fashion industry including the development of fashion and consumer demands, fashion producers, fashion retailers, international fashion centers, marketing concepts, promotion, publishing, and advertising areas. Emphasis placed on current industry and careers.

FASH 110 3/2/3/0
CONTEMPORARY CLOTHING CONSTRUCTION
Recommended Preparation: FASH 100 or basic sewing skills
Clothing construction methods appropriate for beginners or students wishing to refine their skills. Emphasis is placed on new sewing and fitting techniques for contemporary fabrics and fashion designs, individualizing patterns, and coordinating fabric choices to create the desired fashion image.

FASH 111 3/2/2/0
FASHION SEWING--INTERMEDIATE
Recommended Preparation: FASH 100 or basic sewing skills
Designed for the student who has had instruction in basic sewing but needs more help in the integration of garment design with fabric and to perfect and upgrade sewing skills and techniques. Combination of FASH 100, 111, and 112 may be taken a maximum of four times. R A 3

FASH 112 3/2/2/0
FASHION SEWING--ADVANCED
Recommended Preparation: FASH 111
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 velvet, microfibers, sheers, silks, piques, taffetas, and lace. Fine custom details such as lining and underlining. Combination of FASH 100, 111, and 112 may be taken a total of four times. R A 3

FASH 113 2/1/3/0
COUTURE SEWING
Recommended Preparation: FASH 111
Application of custom techniques in construction of haute couture garments. Instruction in fine finishing details such as hand-sewing techniques, trapunto, self-trim applique, and beading. R E 3

FASH 120 3/2/2/0
TAILORING
Recommended Preparation: FASH 100 or basic sewing skills
Emphasizes tailoring techniques as applied to construction of coats and suits. Stresses hand-tailoring processes including working with wool, hand-rolling collars, and supporting fabrics and linings. Also includes tailoring methods using soft, unconstructed fabrics; new shaping technique; and quick methods of construction. R E 3

FASH 124 3/2/2/0
WEARABLE ART
Recommended Preparation: FASH 100 or basic sewing skills
Incorporates student's artistic abilities, cultural and ethnic sources, specialty fabrics, needle arts and heirloom sewing to create an artistic wearable garment. Covers design methods, embellishment, surface patterns, and construction of clothing. R E 3

FASH 130 4/4/1/0
FLAT PATTERN DESIGN
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 3/2/2/0
DRAPING FASHION DESIGNS
Recommended Preparation: FASH 100 or basic sewing skills
Creative apparel-designing using fabric-draping techniques on a dress form with application to the individual. R E 3

FASH 136 3/2/2/0
APPAREL DESIGN
Recommended Preparation: FASH 130
Designed to teach the basic skills of garment design: how designers develop a line, sources of inspiration, trend reports, and the elements of a successful apparel line. Course includes garment sketch, line presentation, sourcing, cost sheets, garment specs and taking your line to market. R E 3

FASH 140 3/3/0/0
FASHION IMAGE
Apparel selection based upon the application of color, line, and design theories. Studies the principles the choice 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 141 3/3/0/0
APPAREL SELECTION
Concepts of apparel selection for professional and personal needs based on design, culture, fashion image, and lifestyles. Includes study of sociological, physiological, and psychological aspects of dress. Covers wardrobe analysis, coordination and maintenance, and consumer purchase guidelines (formerly FCS 140).

FASH 143 3/3/0/0
FASHION BUYING AND MERCHANDISING
Study the principles and techniques of merchandising pertinent to the fashion industry including buying fashion, methods of merchandising fashion, and merchandise control. Also listed as BUS 143. Credit given in either area, not both.

FASH 144 3/3/0/0
FASHION TRENDS AND CULTURAL COSTUMES
Examines the forces which influence the fashion trends of today by studying the clothing, textiles, arts, and cultures of the past. Covers historical, artistic, socioeconomic, geographic, religious, political, and cultural influences clothing design, textiles, and fashion from ancient to modern civilization. Includes cultures throughout the world.

FASH 145 1/1/0/0
INTERNSHIP
Corequisite: CWE 180
Supervised and educationally-directed internship. Weekly lectures will relate on-the-job experiences with academic program. To be taken in the final year of program. Also listed as BUS 145. Credit given in either area, not both.

FASH 147 3/2/2/0
SPECIAL EVENTS COORDINATION AND PROMOTION
Emphasis is on a student-produced fashion event. The course will provide training in fashion promotion and coordination, retail sales, advertising, and merchandising. Also listed as BUS 147. Credit given in either area, not both. R E 3

FASH 148 3/2/2/0
VISUAL MERCHANDISING
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 given in either area, not both. R E 3

FASH 150 3/2/2/0
FASHION APPAREL AND PROFESSIONAL TECHNIQUES
Information about fashion designers 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. Stresses professional portfolio development and presentation skills for fashion design and merchandising students.

FASH 154 3/2/2/0
FASHION ILLUSTRATION
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 the use of croquis and developing freehand sketching skills of the fashion figure in a variety of poses, with attention to the drape texture and pattern of fabric. R E 3

FASH 160 2/1/2/0
FASHION FIELDWORK
Corequisite: CWE 180
Analysis and techniques of job application, interviewing, 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 .5-4/.5-4/.5-9/.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 1

FASH 204 1/1/.5/0
UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION
Learn principles and procedures involved in the business applications of the apparel industry using order processing and manufacturing software. Course will cover distribution, manufacturing and wholesaling using AIMS (Apparel Information Management System), a completely integrated order, production and inventory control processing system. Students passing final exam will earn AIMS Certification. R E 3

FASH 205 3/2/2/0
CORSET CONSTRUCTION
Recommended Preparation: FASH 100 or 110
Covers types of corsets, both historical and modern. Students will create their own pattern, learn proper fitting techniques, evaluate suitability of fabric and boning and build a corset from start to finish. R E 3

FASH 209 2/1/3/0
CONSTRUCTION OF CHILDREN'S CLOTHING
Recommended Preparation: FASH 100 or basic sewing skills
Gain 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 1/0/3/0
CLOTHING CONSTRUCTION STUDIO
Corequisite: Enrollment in any fashion course
Add to your sewing knowledge and make your chosen special garment(s) using the expertise of fashion instructors and industrial sewing machines. Student may pursue individual projects or complete work in progress. R E 3

FASH 211 3/2/2/0
ADVANCED DRESSMAKING AND CUSTOM SEWING
Recommended Preparation: FASH 111 and 130
Application of advanced techniques in the construction of specialty, custom and couture/designer garments. Use of advanced designer patterns and their manipulation for a custom look and fit. Handling of specialty fabrics such as lace, wools, silks, and napped fabrics as well as sophisticated couture designer finishes and embellishments. R E 3

FASH 212 1/0/3/0
CONSTRUCTION LAB
Corequisite: FASH 100, 110, 111
Includes demonstration and practice of basic and intermediate sewing skills necessary for the student at the fundamental level. Course includes exposure and use of industrial sewing machines, industrial dress forms and industrial irons in a professional studio. Offered as open-entry/open-exit as credit/no credit. R E 3

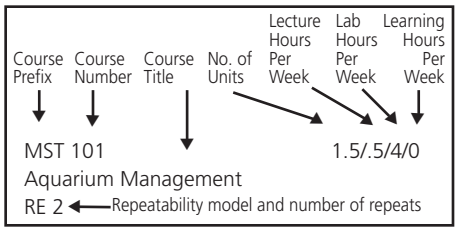
FASH 213 1/0/3/0
DESIGNER'S LAB
Corequisite: FASH 111, 112, 120, 132, 136, 221, 230, 234
Recommended Preparation: FASH 100
Includes demonstration and practice of advanced sewing skills necessary for the established student and designer. Course includes exposure and use of industrial sewing machines, industrial dress forms, tailoring equipment, pattern making equipment and industrial irons in a professional studio. Offered as open-entry/open-exit as credit/no credit. R E 3

FASH 214 1/0/3/0
COUTURE LAB
Corequisite: FASH 112, 113, 124, 209, 234
Recommended Preparation: FASH 100
Includes demonstration and practice of couture and specialty sewing skills necessary for the accomplished student and designer. Course includes exposure and use of industrial sewing machines, industrial dress forms, tailoring equipment, pattern making equipment specialty equipment and industrial irons in a professional studio. Offered as open- entry/open-exit as credit/no-credit. R E 3

FASH 221 2/1/3/0
CONTEMPORARY TAILORING
Recommended Preparation: FASH 100 or basic sewing skills
Study 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 230 3/2/2/0
ALTERATIONS AND FITTING
Recommended Preparation: FASH 100 or basic sewing skills
Included are basic procedures involved in altering a ready-made garment, industrial sewing-machine operation, identification of specific fitting problems, causes, and remedies. R E 3

FASH 234 2/1/3/0
ADVANCED PATTERN AND DESIGN TECHNIQUES
Recommended Preparation: FASH 130
Translate complex original designs into garments. Includes instruction in industrial pattern and apparel construction. Students will develop style designs and patterns. R E 3



FASH 235 2/1/3/0
DESIGNING FOR THE FASHION INDUSTRY
Recommended Preparation: FASH 130
A professional course simulating the procedures used in the design department of a garment manufacturer. The student will design 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 improving design techniques. R E 3

FASH 238 2/1/3/0
ADVANCED DRAPING AND FASHION DESIGN
Recommended Preparation: FASH 132
Explores design principles through draping techniques. Student will create half and full scale garments for presentation, professional portfolio, and department fashion show. R E 3

FASH 240 3/2/2/0
DYE PROCESSES ON FABRICS
Explores a variety of methods used to dye and/or print fabrics suitable for use in clothing and interiors. 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 and costume projects. Excellent for fashion, theater costuming, art and interior students. R E 3

FASH 247 1/1/.5/0
SPECIAL EVENTS PARTICIPATION
Includes planning and participating in a student produced fashion event. Students will showcase garments of their own design or will apply staging principles learned in merchandising courses. R E 3

FASH 254 1/.5/1/0
FASHION IN SOUTHERN CALIFORNIA
Introduction to the fashion industry in southern California. Students will visit California Mart and a selection of industry professionals and environments such as designers, buyers, manufacturers, and production facilities. R E 3

FASH 260 2/1/2/0
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 Illustrator and Snap Fashion for fashion illustration and computer-assisted apparel design. R E 3

FASH 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Family and Consumer Sciences

FCS 115 3/3/0/0
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. Includes decision-making, consumer resources, resolving consumer complaints, psychology of the marketplace, financial planning, consumer credit, stretching food dollars, housing, economics through the life cycle, clothing, appliances, energy conservation, transportation, insurance, and health care.

FCS 142 3/3/0/0
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. Investigate changing roles and lifestyles. Practical applications include balancing home, family, work, and individual responsibilities; household planning; work simplification; budgeting; and management of the household.

FCS 142A 1/1/0/0
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. R A 2

FCS 142B 1/1/0/0
LIFE MANAGEMENT
Application of skills to effectively manage and balance personal, family, and work life including the management process, time, energy, and personal management of nutrition, health, and fitness choices. FCS 142A, B, and C may be taken one time each. R A 2

FCS 142C 1/1/0/0
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. R A 2

FCS 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Fine Arts

FA 27 3/3/0/0
INTRODUCTION TO FINE ARTS
An introductory course to the discipline of fine arts, including art, theatre, and music. Explores various topics that unite all fine arts, including terminology, aesthetics, themes, objective and subjective analysis, and techniques of the critique.

Food and Nutrition

FN 50 3/3/0/0
FUNDAMENTALS OF NUTRITION
A comprehensive analysis of the principles of nutrition and their relationship to health throughout the life cycle. Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on the needs of the individual.

FN 64 3/3/0/0
NUTRITION ISSUES AND 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 and diet fads and fallacies, nutrient needs, nutrient supplements, food safety, nutrition legislation and current dietary trends.

FN 110 3/2/3/0
FOOD PREPARATION ESSENTIALS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Practical experience in healthy food preparation techniques as well as an investigation of scientific principles involved. Emphasis is placed on ingredient selection and interaction, technique and production standards, food safety and sanitation, nutrient values and food presentation.

FN 120 3/2/3/0
CONTEMPORARY MEALS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Planning, organizing, preparing and serving attractive, nutritionally balanced meals on the basis of time, energy and money management. Laboratory experiences include conventional, microwave, and convection oven cookery; use of portable appliances, entertaining and meals geared to a variety of life styles.

FN 140 2/1/3/0
CULTURAL FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Emphasizes regional, ethnic, cultural, religious, historical, and social influences on food patterns and cuisines. Laboratory experience with foods from many cultures will be stressed as well as professional and commercial applications. R E 3

FN 142 2/1/3/0
CLASSICAL CUISINE
Prerequisite: FN 171 or 210 or ServSafe Certificate
Mastery of techniques in menu planning, preparation, presentation, and service of fine cuisine. Professional and commercial applications as well as culinary careers will be explored. R E 3

FN 160 3/3/0/0
NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS
Sound principles of weight management and nutritional concerns of eating disorders. Investigates and evaluates weight-control methods, food fads, fallacies, basic nutritional needs, and recommended lifestyle changes. Current approaches to nutritional care and treatment of eating-disorders will be covered. Emphasizes application of nutrition principles for eating disorder counselors and nutrition professionals in the counseling setting.

FN 161 2/2/0/0
NUTRITION FOR HEALTH OCCUPATIONS
Examines the essential nutrients and the basic dietary guides. Included will be the application of nutrition to the stages of the life cycle; nutrition-related health conditions, basic principles of therapeutic nutrition, ethnic influences on diet, and guidelines for evaluating nutrition information as to its validity and application.

FN 164 2/2/0/0
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 2/2/0/0
SANITATION AND SAFETY
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.

FN 172 2/1/3/0
CATERING
Prerequisite: FN 171 or 210 or ServSafe Certificate
Covers catering and special events planning and production including management, menu planning, estimating and marketing, hiring tactics, 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 2/1/3/0
CATERING AND BANQUETS
Prerequisite: FN 171 or 210 or ServSafe Certificate
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 .5-4/.5-4/.5-9/.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 1

FN 210 1/1/0/0
SERVSAFE IN FOOD PRODUCTION
Introduction to basic information on food safety risks, standards and practices in restaurant operations. Students may take the federal exam, ServSafe, upon the completion of this course. R E 3

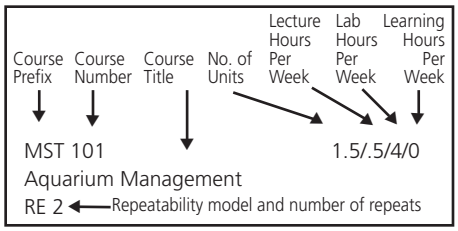
FN 220 2/1/3/0
COUNTRY FRENCH FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Exploration and preparation of the foods of provincial France. Students will gain practical experience in the planning and preparation of representative Country French and bistro specialties and menus. Attention will be given to techniques, methods, and presentation for the catering and restaurant industry. R E 2

FN 221 2/1/3/0
FRENCH CUISINE
Prerequisite: FN 171 or 210 or ServSafe Certificate
Focus 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 2/1/3/0
CHINESE FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
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 2/1/3/0
ASIAN FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Cuisines of the 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 2/1/3/0
MEXICAN FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Focus on the art of preparing and presenting the many regional cuisines of Mexico. Practical experience in preparing authentic Mexican 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 227 2/1/3/0
MEDITERRANEAN FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
The cuisines and cultures of the following Mediterranean countries are included in course study: 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, dressings, and desserts appropriate to the region. R E 3

FN 228 2/1/3/0
ITALIAN FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
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 2/1/3/0
VEGETARIAN FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Focus on the art of preparing and presenting vegetarian foods. Practical experience in preparing vegetarian dishes, variety of cultural and ethnic dishes included. Also includes an exploration of nutrition information including health benefits and recommendations for healthy food planning, and use of specialized ingredients. Emphasis is on developing professional skills and techniques applicable to the commercial food industry. R E 3

FN 232 2/1/3/0
LITE CUISINE STRATEGIES
Prerequisite: FN 171 or 210 or ServSafe Certificate
Focus on the art of preparing and presenting lite cuisine to support life-long eating patterns that promote good health. Practical experience in planning and preparing healthy dishes using innovative methods--a variety of cultural and ethnic dishes included. Emphasizes exploration of nutrition information, modification of less healthy recipes, substituting ingredients to include more healthful item-including health benefits and recommendations for healthy food choices, planning, and use of specialized ingredients. R E 3

FN 236 2/1/3/0
AMERICAN REGIONAL FOODS
Prerequisite: FN 171 or 210 or ServSafe Certificate
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 2/1/3/0
INTRODUCTION TO CULINARY ARTS
Prerequisite: FN 171 or 210 or ServSafe Certificate
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 1/.5/1.5/0
MODERN GARDE MANGER - COLD FOOD PREPARATION
Prerequisite: FN 171 or 210 or ServSafe Certificate
Fundamental principles of modern garde manger will be covered. Practical experience in techniques, preparation, presentation and service of hors d'oeuvres, salads, sandwiches and cheese selection will be explored. Purchasing, storage and quality control of pantry products are included. R E 3

FN 243 1/.5/1.5/0
MODERN GARDE MANGER - HOT FOOD PREPARATION
Prerequisite: FN 171 or 210 or ServSafe Certificate
Fundamental principles of modern garde manger will be covered. Practical experience in techniques, preparation, presentation and service of poultry, meats, fish and shellfish, sausage making and pates will be explored. Purchasing, storage and quality control of pantry products will be taught. R E 3

FN 244 2/1/3/0
BAKING BASICS
Prerequisite: FN 171 or 210 or ServSafe Certificate
Fundamental principles of baking, including weights and measurement techniques, ingredients and their uses. Includes cookies, pies and pie fillings, quick breads, cakes, simple yeast doughs and custards. R E 3

FN 245 2/1/3/0
SPECIALTY AND SAVORY BAKING
Prerequisite: FN 171 or 210 or ServSafe Certificate
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. R E 3

FN 275 3/3/0/0
FOOD AND BEVERAGE OPERATIONS
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

FN 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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French

FR 1 5/5/0/0
ELEMENTARY 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 2 5/5/0/0
ELEMENTARY FRENCH
Prerequisite: FR 1 or 1B or two years of high school French
Corequisite: FR 999A
Designed to further 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 3 5/5/0/0
INTERMEDIATE FRENCH
Prerequisite: FR 2 or three years of high school French
Corequisite: FR 999B
Reviews the fundamentals with further study of the French language and culture.

FR 4 5/5/0/0
INTERMEDIATE FRENCH
Prerequisite: FR 3 or four years of high school French
Corequisite: FR 999B
Concentrates on the development of fluency in the skills needed to communicate in French. Further study of cultural topics.

FR 10 3/3/0/0
INTERMEDIATE CONVERSATIONAL FRENCH
Prerequisite: 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.

FR 20 3/3/0/0
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 3/3/0/0
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 1/3/0/0
PRACTICAL FRENCH
Emphasizes conversational skills in French 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

FR 999A .25/0/0/1
FRENCH LANGUAGE LAB
Corequisite: FR 1, 2
Requires concurrent enrollment in designated Elementary French courses. Enhances and provides practice in skills learned in Elementary French Language courses. R E 3

FR 999B .25/0/0/1
FRENCH LANGUAGE LAB
Corequisite: FR 3, 4
Requires concurrent enrollment in designated Intermediate French courses. Enhances and provides practice in skills learned in the Intermediate French courses. R E 3

Geographic Information Systems

GIS 110 2/1/2/0
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)
Recommended Preparation: CIM 174A
Provides conceptual overview of Geographic Information Systems (GIS). Coursework based on the mapping and spatial analysis capabilities of desktop GIS software. Students are introduced to the tools and techniques of GIS, including data management and manipulation, analysis, cartographic presentation, and basic GIS programming fundamentals. Applications can be applied to various disciplines, including geography, geology, biology, marketing, business, and planning. Also listed as GEOG 110. Credit given in either area, not both.

GIS 211 2/1/2/0
INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)
Prerequisite: GEOG/GIS 110
Intermediate GIS course prepares students for advanced geographic analysis. Students will integrate geographic and spatial concepts into acquisition and creation of Geographic Information Systems (GIS), Global Positioning system (GPS) and varied data types, cartography, programming, and raster data. Laboratory exercises will allow students of various disciplines to explore the use of GIS in their fields. Also applicable to those already in the GIS field seeking additional skills. Also listed as GEOG 211. Credit given in either area, not both.

GIS 212 2/1/2/0
ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS)
Prerequisite: GIS 211
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.

Geography

GEOG 1 3/3/0/0
PHYSICAL GEOGRAPHY
Focuses on the basic physical elements of geography: Earth-sun relationships, weather, climate, landforms, soils, water and natural vegetation, and their integrated patterns of world distribution.

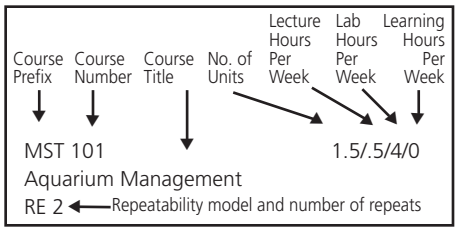
GEOG 1L 1/0/3/0
PHYSICAL GEOGRAPHY LABORATORY
Prerequisite: Must be taken concurrently with GEOG 1 or within one year after completing GEOG 1
An earth environment laboratory that explains in greater depth the ideas and relationships of physical geography. Stresses the scientific method in interpreting Earth-sun relations; time; earth representation through globes and maps; weather (temperature, moisture, pressure and winds); climate; natural vegetation; soils and landform evolution by tectonic forces, erosion and deposition.

GEOG 2 3/3/0/0
CULTURAL GEOGRAPHY
Introduction to social and political elements of geography and a survey of major cultural patterns.

GEOG 3 3/3/0/0
WORLD REGIONAL GEOGRAPHY
Introduction to the world's geographical regions and major countries with an emphasis on human cultural patterns and their evolution in diverse physical environments.

GEOG 38 3/3/0/0
CALIFORNIA GEOGRAPHY
The natural and cultural environment of California with special emphasis on the effects of the climate, topography, resources and location upon the social, political and economic development of the state.

GEOG 102 1/.5/1.5/0
GEOGRAPHY FIELD STUDIES
A lecture and laboratory field course to study the physical and cultural geography of California. Thematic emphasis and course content will vary depending on location. R E 3



GEOG 110 2/1/2/0
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)
Recommended Preparation: CIM 174A
Provides conceptual overview of Geographic Information Systems (GIS). Coursework based on the mapping and spatial analysis capabilities of desktop GIS software. Students are introduced to the tools and techniques of GIS, including data management and manipulation, analysis, cartographic presentation, and basic GIS programming fundamentals. Applications can be applied to various disciplines, including geography, geology, biology, marketing, business, and planning). Also listed as GIS 110. Credit given in either area, not both.

GEOG 189 .5-4/.5-4/.5-9/.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 1

GEOG 211 2/1/2/0
INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)
Prerequisite: GEOG/GIS 110
Intermediate GIS course prepares students for advanced geographic analysis. Students will integrate geographic and spatial concepts into acquisition and creation of Geographic Information Systems (GIS), Global Positioning System (GPS) and varied data types, cartography, programming, and raster data. Laboratory exercises will allow students of various disciplines to explore the use of GIS in their fields. Also applicable to those already in the GIS field seeking additional skills. Also listed as GIS 211. Credit given in either area, not both.

GEOG 289 .5-4/.5-4/.5-9/.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 1

Geology

GEOL 1 4/3/3/0
INTRODUCTION TO PHYSICAL GEOLOGY
Integrated study of the principles of geology and the use of geologic clues to determine earth history. Emphasis will be placed on the composition of earth's crust and interior, plate tectonics, volcanism, earthquakes, mountain building, surface processes and natural resources such as minerals, fossil fuels, and water. Includes laboratory exercises in identifying common minerals and rocks, reading and interpreting aerial photos, topographic, and geologic maps. Field trips will supplement laboratory work.

GEOL 2 4/3/3/0
HISTORICAL GEOLOGY
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 3/3/0/0
GEOLOGY OF CALIFORNIA
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 4 3/3/0/0
NATURAL DISASTERS
Examines how human evolution, society, culture, and even where we choose to work and live, are dictated by natural hazards. The entire time scale from formation of the universe to the present earth system will be considered. The physical processes causing earthquakes, volcanic eruptions, tsunamis, floods, windstorms, and asteroid impacts will be described, along with the role played by these random, rapid processes in the geological and biological evolution of the planet.

GEOL 5 4/3/3/0
MARINE GEOLOGY
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, morphology, sediments and resources. Attention will be given to laboratory and field techniques. Field trips will be required.

GEOL 6 4/2/6/0
PRINCIPLES OF MINERALOGY
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 7 3/3/0/0
WEATHER AND CLIMATE
A survey course in meteorology, emphasizing atmospheric composition and variability as well as interactions between atmosphere, oceans and continents to produce our weather. Includes the terminology and tools that meteorologists employ to observe, study, and predict storm systems, storm fronts, thunderstorms, tornadoes, and wind-driven ocean waves. Current topics such as air pollution and climate change will also be addressed.

GEOL 10 3/3/0/0
GEOLOGY OF THE NATIONAL PARKS
A survey of geologic concepts and processes responsible for shaping the national parks of the U.S., including plate tectonics, mountain building, volcanic and earthquake activity, weathering, erosion, sedimentation and glaciation. Emphasizes the geologic evolution of the North American continent.

GEOL 20 4/3/3/0
INTRODUCTION TO EARTH SCIENCE
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 3/3/0/0
THE SOLAR SYSTEM
A 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 given in either area, not both.

GEOL 23 4/3/3/0
ENVIRONMENTAL GEOLOGY
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 given in either area, not both.

GEOL 162 2/1/3/0
GEMS AND MINERALS
Designed for the beginning rockhound or amateur mineral collector who wants to become familiar with gems and minerals. Includes the fundamentals of mineral identification and use of mineral keys. Simple physical and chemical tests are introduced along with a demonstration of chemical and spectroscopic analysis.

GEOL 170 2/1/3/0
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.

GEOL 172 1/.5/1.5/0
GEOLOGY FIELD STUDIES: MOJAVE DESERT
Studies the origin, evolution, and geology of the Mojave Desert and adjacent areas. Scheduled to minimize conflict with other classes. Students in geology and earth sciences are encouraged to enroll.

GEOL 173 1/.5/1.5/0
GEOLOGY FIELD STUDIES: DEATH VALLEY
Studies the origin, evolution, and geology of Death Valley National Park and adjacent areas. Thematic emphasis and course content will vary. Scheduled to minimize conflict with other classes. Students in geology and earth sciences are encouraged to enroll.

GEOL 174 1/.5/1.5/0
GEOLOGY FIELD STUDIES: EASTERN SIERRA REGION
Studies the origin, evolution, and geology of Eastern Sierra region and adjacent areas. Thematic emphasis and course content will vary. Scheduled to minimize conflict with other classes. Students in geology and earth sciences are encouraged to enroll.

GEOL 175 1/.5/1.5/0
GEOLOGY FIELD STUDIES: SAN ANDREAS FAULT
Studies the origin, evolution, and geology of the San Andreas, Transverse Range and adjacent areas. Thematic emphasis and course content will vary. Scheduled to minimize conflict with other classes. Students in geology and earth sciences are encouraged to enroll.

GEOL 179 1/.5/1.5/0
GEOLOGY FIELD STUDIES: KING'S CANYON-SEQUOIA
Studies the origin, evolution, and geology of the Kings Canyon/Sequoia Parks and adjacent areas. Thematic emphasis and course content will vary. Scheduled to minimize conflict with other classes. Students in geology and earth sciences are encouraged to enroll.

GEOL 182 1/.5/1.5/0
GEOLOGY FIELD STUDIES: COAST RANGE-MORRO BAY
Studies the origin, evolution, and geology of the Coast Range, Morro Bay, and adjacent areas. Thematic emphasis and content will vary. Scheduled to minimize conflict with other classes. Students in geology and earth sciences are encouraged to enroll.

GEOL 183 1/.5/1.5/0
GEOLOGY FIELD STUDIES: ANZA-BORREGO DESERT
Studies the origin, evolution, and geology of Anza-Borrego Desert Park and adjacent areas. Thematic emphasis and course content will vary. Scheduled to minimize conflict with other classes. Students in geology and earth sciences are encouraged to enroll.

GEOL 185 1/.5/1.5/0
GEOLOGY FIELD STUDIES: YOSEMITE
Studies the origin, evolution, and geology of Yosemite National Park and surrounding areas. Thematic emphasis and course focus varies seasonally.

GEOL 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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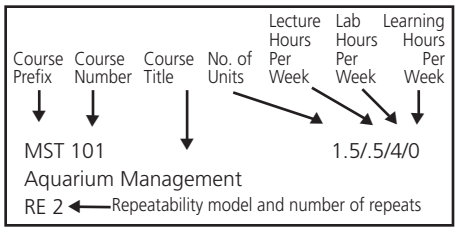
German

GER 1 5/5/0/0
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 2 5/5/0/0
ELEMENTARY GERMAN
Prerequisite: GER 1 or two years of high school German
Corequisite: GER 999A
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.

GER 3 5/5/0/0
INTERMEDIATE GERMAN
Prerequisite: GER 2 or three years of high school German
Corequisite: GER 999B
Reviews the fundamentals with further study of the German language and culture.

GER 4 5/5/0/0
INTERMEDIATE GERMAN
Prerequisite: GER 3 or four years of high school German
Corequisite: GER 999B
Concentrates on the development of fluency in the skills needed to communicate in German. Further study of cultural topics.



GER 10 3/3/0/0
INTERMEDIATE CONVERSATIONAL GERMAN
Prerequisite: GER 2 or three years of high school German
Designed to develop fluency in German. The emphasis is on both formal and informal expression and conversation in the language.

GER 200 1/1/0/0
BEGINNING PRACTICAL GERMAN
Introduces basic vocabulary including phonetics of German alphabet, pronunciation simple sentence structure, spelling rules, common nouns, adjectives, and verbs. Includes simple tenses, subject-verb order, conjugation of verbs and declarative, imperative and interrogative sentence structure. Cultural aspects of Germany, Austria, and Switzerland are included. Develops grammar skills and pronunciation in preparation for Elementary German. R E 1

GER 211 3/3/0/0
GERMAN FOR BUSINESS PURPOSES
Recommended Preparation: GER 1 and 2
Concentrates on practical, commercial, technical, and business-related German and is designed for the particular needs of American business students and employees who intend to work, or are already working in international business. R E 1

GER 999A .25/0/0/1
GERMAN LANGUAGE LAB
Corequisite: GER 1, 2
Requires concurrent enrollment in designated Elementary German courses. Enhances and provides practice in skills learned in Elementary German courses. R E 3

GER 999B .25/0/0/1
GERMAN LANGUAGE LAB
Corequisite: GER 3, 4
Requires concurrent enrollment in designated Intermediate German courses. Enhances and provides practice in skills learned in Intermediate German language courses. R E 3

Gerontology

GERO 101 1.5/1.5/0/0
LIFECYCLE 1: FUNDAMENTALS OF AGING
A multidisciplinary introduction to aging emphasizing the adaptive behaviors of normal aging, and focusing on physical and psychosocial changes. Includes the variables of financial resources, legal aspects, socialization needs, cultural differences within the US, healthcare issues, and current concerns involving the older adult.

GERO 110 1.5/1.5/0/0
PSYCHOLOGY OF AGING
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.

GERO 115 1.5/1.5/0/0
SOCIOLOGY OF AGING
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.

GERO 120 1.5/1.5/0/0
PHYSIOLOGY OF AGING
Explores 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 CEU's 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 145 3/3/0/0
ACTIVITY LEADERSHIP
Learn to plan and coordinate activities for older adults which are designed to make life more meaningful and to support mental, physical, and social capabilities. Meets requirements of the California State Department of Health for the 36-hour Activity Leader Course. Students completing this course will be eligible for employment as Activity Director in skilled nursing or intermediate care facility. Provides 20 CEU for administrators of residential care facilities. Provider approved by the California Board of Registered Nursing, Provider Number CEP60.

GERO 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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GERO 289 .5-4/.5-4/.5-9/.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 1

Graphic Communications

GC 63 3/2/3/0
INTRODUCTION TO SCREEN PRINTING
Principles, basic methods and techniques of preparing handcut and photographic stencils, printing techniques, simple color separation, and equipment and material handling. Care, use, and safety precautions in operating and cleaning the silk-screen unit. Also listed as ART 63. Credit in either area, not both. R E 3

GC 101 3/2/3/0
INTRODUCTION TO GRAPHIC COMMUNICATION
Designed to introduce the graphics major as well as the non-major to the broad field of graphic communications. Includes experience in design, 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

GC 189 .5-4/.5-4/.5-9/.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 1

GC 195 3/1/4/0
GRAPHICS STUDIO
Recommended Preparation: GC 101
For the advanced graphics student who requires actual production experience or additional training in a specific area. Skills will be enhanced by hands-on experience in the production of graphics in computer graphics, graphic communications, design or illustration/animation. R E 3

GC 210 3/2/3/0
LETTERPRESS
Learn the traditional art of letterpress printing. Today many designers are returning to the craft of letterpress--printing from metal and wooden type and photopolymer plates--as a unique option to offset printing. Letterpress offers a tactile quality and nostalgic feel that can't be achieved with any other technique. R E 3

GC 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Graphic Design

GD 140 3/2/3/0
BEGINNING GRAPHIC DESIGN
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. Designed to convey current concepts in the graphic design field. Also listed as ART 140. Credit given in either area, not both.

GD 141 3/2/3/0
GRAPHIC RENDERING TECHNIQUES
The exploration of two-dimensional media for graphics. Projects encourage exploration and control in a variety of design applications. Recognition and choice of techniques in translating ideas into renderings. Also listed as ART 141. Credit given in either area, not both. R E 3

GD 142 3/2/3/0
PACKAGE DESIGN
Introduction to traditional and computer-generated construction and layout 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 3/2/3/0
TYPOGRAPHY
Basic principles of typography explored. Course is intended to provide the students with practical, formal, and communicative typographic skills. Instruction focuses on understanding the practical and analytical application of typography in graphic design and its critical evaluation. Emphasis is on developing strong typographic skills in students. Instruction focuses on problem solving and technical training while at the same time nurturing intuition and creativity. Also listed as ART 144. Credit given in either area, not both.

GD 145 3/2/3/0
GRAPHIC ILLUSTRATION
Develop illustrations 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 select mediums. Also listed as ART 145. Credit given in either area, not both.

GD 147 3/2/3/0
INTRODUCTION TO COMPUTER GRAPHICS
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. R E 2

GD 148 3/2/3/0
DIGITAL GRAPHIC DESIGN
Recommended Preparation: GD or ART 140, GD 147
Introductory course for students interested in graphic design and the computer as used in design. Students are familiarized with the basic principles of the Macintosh computer as it relates specifically to graphic design. The course uses a range of software for layout and design such as Photoshop, Illustrator, QuarkXpress and InDesign.

GD 149 3/2/3/0
DIGITAL ILLUSTRATION
Recommended Preparation: GD or ART 141, 145, GD 147
Exploration of Paint and Illustrator software on the Macintosh computer. Work in black and white as well as color. Intended for those with experience in art and design.

GD 150 3/2/3/0
DIGITAL ANIMATION
Recommended Preparation: GD or ART 141, GD 147, 149
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, illustrators and animators to breathe life into storyboards with sound and visual effects. Graphic artists can create digital images for clients to disk, web and film.

GD 151 3/2/3/0
DIGITAL LAYOUT AND DESIGN
An introduction to layout design for print and web publishing that covers typography, layout theory, pre-press production methods and project management. Emphasizes practical development techniques to produce digital visual images efficiently. Software instruction uses industry standard design software.

GD 154 3/2/3/0
DIGITAL PRE-PRESS
Recommended Preparation: GD 147, 151, 163
Introductory course for students interested in the Macintosh computer's capability, along with digital printers, to input pre-press information including color separation. Study production techniques as they relate to the computer and its output devices. Scanning images for correct output DPI is covered.

GD 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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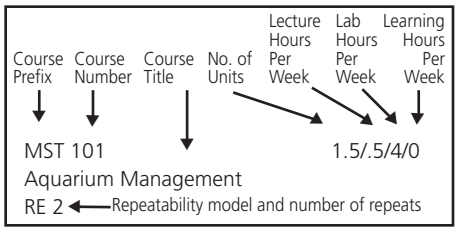
GD 200 3/2/3/0
PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS
Designed to help graphic designers master professional studio techniques including custom typographic treatments and special photographic effects in Adobe Photoshop. Emphasizes technical proficiency and aesthetic judgment. Students will develop creative projects using a broad range of skills. R E 3



GD 240 3/2/3/0
INTERMEDIATE GRAPHIC DESIGN
Study of design concepts to explore organization of visual elements to graphics. Studio work will include layout and production of designed formats (magazine ads, logos, TV storyboard, newspapers and ads) 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 3/2/3/0
AIRBRUSH TECHNIQUES
Learn the principles of various techniques using the airbrush. Techniques in how to clean, repair, operate, mask, and style will be explored in student projects. R E 3

GD 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Health

HLTH 1 3/3/0/0
CONTEMPORARY HEALTH ISSUES
An exploration into traditional and holistic health topics as they affect the individual, family, community and society. General topics include stress reduction techniques, emotional management, and communication skills. Sexuality and intimate relationships, nutrition, weight management, fitness, aging, dying, narcotics, alcohol, tobacco, values clarification, goal setting, and time management are also included.

HLTH 2 1.5/1.5/0/0
RESPONDING TO EMERGENCIES/ FIRST AID AND CPR
A course in accident and injury prevention, CPR, AED and first aid for common injuries/illness. Successful completion qualifies a student for the American Red Cross Responding to Emergency CPR, AED and First Aid certificate. R 99

HLTH 3 3/3/0/0
WOMEN'S HEALTH ISSUES
An exploration of all health issues that affect the quality of women's daily lives. A special emphasis on women's issues, including sexuality, and intimate relationships, reproductive issues and PMS, communication skills, fitness concepts, nutrition, and food awareness, belief systems and emotional management, relaxation, visualization and stress reduction, and aging and dying. Also includes setting and attaining goals.

Health Sciences

HSC 102 2/2/0/0
COMPREHENSIVE HEALTH ASSESSMENT
Recommended Preparation: N 172
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. Optional clinical experience available.

HSC 201 3/3/0/0
MEDICAL TERMINOLOGY
Application and orientation to medical terminology, basic structure of medical terms and their components--roots, prefixes, suffixes and combining forms. Emphasizes 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. Letter grade only (formerly MA 200).

HSC 217 2/2/0/0
CARDIAC DYSRHYTHMIAS
Recommended Preparation: N 172 or EMT 205 and 205L
Emphasizes cardiac function, normal and abnormal heart rhythms, causes of dysrhythmias, and interpretation of monitoring equipment printouts.

HSC 222 .75/.75/0/0
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 Healthcare Provider Basic Life Support course completion card. R 99

HSC 223 .25/.25/0/0
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. R 99

HSC 226 2/2/0/0
ADVANCED CARDIAC LIFE SUPPORT
Limitation: Current BLS Healthcare Provider
Recommended Preparation: HSC 217
Provides healthcare students with critical assessment and management skills to treat adults with cardiac arrest, respiratory arrest, and stroke. R 99

HSC 227 2/2/0/0
PEDIATRIC ADVANCED LIFE SUPPORT
Limitation: Current BLS Healthcare Provider course completion card or equivalent with American Heart Association criteria
American Heart Association/American Academy of Pediatrics Pediatric Advanced Life Support (PALS) course for healthcare 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 99

HSC 228 1/1/0/0
CALCULATIONS FOR MEDICATION ADMINISTRATION
Basic concepts for problem-solving in administering drugs and solutions. Stresses equivalencies and unit conversions. Uses dimensional analysis system for problem solving.

HSC 289 .5-4/.5-4/.5-9/.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 1

HSC 291 .5/.5/0/0
MANAGEMENT OF ASSAULTIVE BEHAVIOR
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

Hebrew

HEBR 1 5/5/0/0
ELEMENTARY HEBREW
Corequisite: HEBR 999
Recommended Preparation: College level reading ability
Designed to develop the fundamentals of communicative competence in colloquial Hebrew. 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 Hebrew.

HEBR 2 5/5/0/0
ELEMENTARY HEBREW
Prerequisite: HEBR 1
Corequisite: HEBR 999
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.

HEBR 3 5/5/0/0
INTERMEDIATE HEBREW
Prerequisite: HEBR 2 or three years of high school Hebrew
Corequisite: HEBR 999B
Intermediate level course focuses on fluency on reading, writing, speaking, and listening. Continues the study of Hebrew culture.

HEBR 4 5/5/0/0
INTERMEDIATE HEBREW
Prerequisite: HEBR 3 or four years of high school Hebrew
Corequisite: HEBR 999B
Emphasizes fluency in speaking, reading, writing, and comprehension of Hebrew. Includes selected readings and discussions from the basic four genres in Hebrew and Hebrew-American literature, culture, and customs.

HEBR 999A .25/0/0/1
HEBREW LANGUAGE LAB
Corequisite: HEBR 1,2
Requires concurrent enrollment in designated Elementary Hebrew courses. Enhances and provides practice in skills learned in Elementary Hebrew courses. R E 3

HEBR 999B .25/0/0/1
HEBREW LANGUAGE LAB
Corequisite: HEBR 3, 4
Requires concurrent enrollment in designated Intermediate Hebrew courses. Enhances and provides practice in skills learned in Intermediate Hebrew courses. R E 3

History

HIST 4 3/3/0/0
WORLD HISTORY TO 1750
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.

HIST 5 3/3/0/0
WORLD HISTORY FROM 1750
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 revolutions.

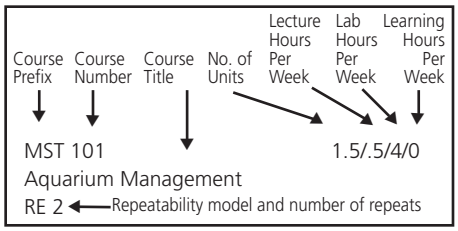
HIST 7 3/3/0/0
SOCIAL AND ECONOMIC HISTORY OF THE U.S. TO 1876
Surveys the American social and economic experience from the colonial period through Reconstruction. Featured topics include colonization; westward expansion of Europeans; the interaction of Native American and European cultures; merchant and early industrial capitalism; motives for and consequences of independence from Great Britain; development and economic implications of federal government; slavery, indenture and free labor; immigration; conflict between the agrarian/republican and urban-industrial/federalist visions of America; military involvements, and conditions of private and family life.

HIST 8 3/3/0/0
SOCIAL AND ECONOMIC HISTORY OF THE U.S., 1877 TO THE PRESENT
Surveys the American social and economic experience from Reconstruction to the present. Featured topics include the emergence of big business; labor and unionization; focus shifts from agriculture to manufacturing to services; government's role in regulating industry and taming business cycles; immigration and internal migrations; urbanization; gender roles and family structure; technological change; living conditions; the distribution of wealth; African American legal rights and economic realities; effects on Native Americans of U.S. expansion and federal oversight; economic globalization; overseas military actions, and new challenges to security and liberty.

HIST 9 3/3/0/0
DIPLOMATIC HISTORY OF THE UNITED STATES
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.

HIST 10 3/3/0/0
UNITED STATES AND ASIA/PACIFIC SINCE 1800
An in-depth study of the United States' historical involvement in the Asian/Pacific regions since 1800. A study of the early explorations in the Pacific region; the principal, social, cultural, and political institutions of Asian/Pacific countries, past and present relations of the United States.

HIST 11 3/3/0/0
PERSPECTIVES OF PEACE STUDIES
A comprehensive study of nonviolent philosophies and movements from the ancient world to the present, with particular emphasis on Mohandas Gandhi, Martin Luther King, Jr., and the movements they led.



HIST 12 3/3/0/0
REVOLUTIONS AND REVOLTS
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.

HIST 15 3/3/0/0
THE VIETNAM WAR
A study of the Vietnam War, including an examination of how the United States became involved, how this war was waged, and reactions to the policy in the United States and within the international community. An analysis of the legacies of the Vietnam conflict will be covered as America confronts world problems today.

HIST 16 3/3/0/0
HISTORY OF THE UNITED STATES TO 1876
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.

HIST 17 3/3/0/0
HISTORY OF THE UNITED STATES SINCE 1876
Focuses on 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.

HIST 19 3/3/0/0
UNITED STATES SINCE 1945
Survey of the United States and its world relationships following 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 Persian Gulf War.

HIST 20 3/3/0/0
ETHNIC CULTURES OF THE UNITED STATES
A general overview of the sociological, psychological, and historical background of selected ethnic groups in the United States. Topics include social, political, and economic factors, as well as intergroup relationships, prejudice, discrimination, affirmative action, immigration, assimilation, and social change. Also listed as SOC 20. Credit given in either area, not both.

HIST 21 3/3/0/0
WOMEN IN UNITED STATES HISTORY: A MULTICULTURAL PERSPECTIVE
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 3/3/0/0
BASIC UNITED STATES HISTORY
Survey of American history and interpretation of institutions from the colonial period to the present.

HIST 25 3/3/0/0
HISTORY OF AMERICAN WEST
An analysis of the 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 3/3/0/0
LATIN AMERICA: PRE-EUROPEAN TO INDEPENDENT NATIONHOOD
A survey of the heritage of Latin America from a cradle of civilization in the pre-European era to the beginning of nationhood. The emphasis will be on 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 3/3/0/0
LATIN AMERICA: 1800 TO THE PRESENT
A survey of the political, economic, cultural, and social history of Latin America. Review the development of Latin American nations since independence from European conquest and occupation. Examines 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 3/3/0/0
HISTORY OF MEXICO
Provides a general survey of Mexican history from pre-Columbian to present. Includes the political, social, economic, and cultural growth of the Mexican nation.

HIST 32 3/3/0/0
CALIFORNIA HISTORY
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 3/3/0/0
THE POLITICAL/SOCIAL HISTORY OF THE CHICANAS/OS
Considers the principal developments in Chicana/o history from the 16th century to the present. Students explore the history of Chicana/o, 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 3/3/0/0
ENGLISH HISTORY TO 1688
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 3/3/0/0
ENGLISH HISTORY SINCE 1688
A survey of English history from the Glorious Revolution to the present. Includes an overview of the economic, political, social, cultural, and scientific developments from 1688 to the present.

HIST 61 3/3/0/0
HISTORY AND POLITICS OF RUSSIA: SOVIET PERIOD TO THE PRESENT
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 collapse of the Soviet Union and the new status of former Soviet republics. Also listed as PS 61. Credit given in either area, not both.

HIST 62 3/3/0/0
EUROPEAN HISTORY TO 1650
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. Field trip may be required.

HIST 63 3/3/0/0
EUROPEAN HISTORY SINCE 1650
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 3/3/0/0
HISTORY OF ASIA TO 1800
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 3/3/0/0
HISTORY OF ASIA SINCE 1800
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 3/3/0/0
HISTORY OF CHINA
A survey of the history of China from Ancient Era to the present. Social, political, geographic, economic and cultural aspects of development will be covered.

HIST 74 3/3/0/0
HISTORY OF THE MIDDLE EAST TO 1800
A survey of the cultural, economic, and political history of the Middle East from Ancient Era to 1800 C.E. with an emphasis on the rise, spread, and development of Islam. Explores how Islam developed out of earlier Middle Eastern societies and built upon those continuities, and examines the expansion and development of Islam and its interaction with pre-Islamic Middle Eastern societies and the West until 1800 C.E.

HIST 75 3/3/0/0
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 given in either area, not both.

HIST 80 3/3/0/0
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 postcolonial African states and peoples. Also listed as PS 80. Credit given in either area, not both.

HIST 81 3/3/0/0
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 135 3/3/0/0
INTRODUCTION TO AMERICAN STUDIES
Focuses on different historical periods and the changing meaning of concepts such as democracy, equality, and freedom within those periods. Examines some of the important cultural, intellectual, moral, and political struggles that have shaped contemporary American society.

HIST 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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HIST 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Horticulture

HORT 7 3/2/3/0
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 3/3/0/0
PLANT MATERIALS-HERBACEOUS PLANTS
An introductory course in landscape plants and identification. Includes plants used as groundcovers, bedding plants, vines and small shrubs. Growth habits and cultural requirements will be studied. Field trips may be required to fulfill the objectives of this course.

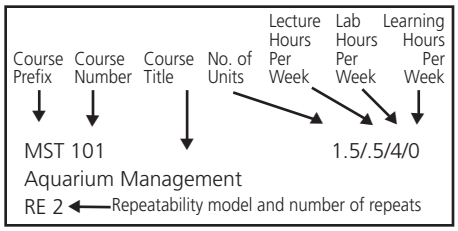
HORT 11 3/3/0/0
PLANT MATERIALS-TREES AND SHRUBS
An introductory course in landscape trees and shrubs identification. Growth characteristics and cultural requirements will be studied. Field trips may be required to fulfill the objectives of this course.

HORT 20 4/3/3/0
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 course.

HORT 29 3/2/3/0
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 3/2/3/0
LANDSCAPE CADD
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 3/3/0/0
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 3/2/3/0
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. Field trips may be required to fulfill the objectives of this course.

HORT 113 3/2/3/0
SOILS AND FERTILIZERS
Soil development, texture, aeration, structure, cation exchange and other physical and chemical properties will be studied. Characteristics, uses, and methods of application of fertilizers and soil amendments in practical applications are presented.

HORT 115 3/3/0/0
HISTORY OF LANDSCAPE DESIGN
A study of landscape design from its beginnings to the present emphasizing Italian, French Renaissance, English natural period, and Islamic gardens to the development of American gardens. Field trips may be required to fulfill the objectives of this courses.

HORT 116 3/3/0/0
IRRIGATION SYSTEMS
An introductory irrigation-systems course covering landscape, system design, installation, maintenance and repair. Emphasizes water conservation principles and practices.

HORT 120 4/3/2/0
INTEGRATED PEST MANAGEMENT
Pest recognition and the methods of environmentally acceptable control in the landscape, nursery, and home will be studied. Insects, spider mites, weeds, fungi, bacteria, viruses, nematodes, and vertebrates are included.

HORT 123 3/3/0/0
WATER AND SOIL CONSERVATION
Evaluation of major water and soil conservation programs and practices, principles of water and soil degradation by erosion, ground water overdraft, chemical transport, climate, topography, and land usage. Examination of the effects of water and soil pollution on population growth, food production, the environment, the economy, and policy. Also listed as ENV 123. Credit given in either area, not both.

HORT 130 3/3/0/0
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 1/1/0/0
WEED IDENTIFICATION
Identification of common weeds found in Southern California, their growth patterns and their control.

HORT 160 1/.5/1.5/0
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 1.5/1/1/0
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. Emphasizes alpine plant communities; plant biogeography; plant succession; plant classification and identification; plant care, needs, and tolerances, as well as soil preferences.

HORT 162 1.5/1/1.5/0
HORTICULTURE FIELD STUDIES - YOSEMITE
A field course studying native plants in Yosemite National Park and adjacent areas that can be used in human environments. Emphasizes foothill and yellow pine plant communities; plant biogeography; plant succession; plant classification and identification; plant care, needs, and tolerances, as well as soil preferences.

HORT 163 1.5/1/1/0
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.

HORT 164 1.5/1/1/0
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.

HORT 165 2.5/1.5/2/0
HORTICULTURE FIELD STUDIES NATIONAL PARKS OF THE SOUTHWEST
A field course studying native plants in the National Parks of the Southwest 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.

HORT 189 .5-4/.5-4/.5-9/.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 1

HORT 201 3/3/0/0
PROFESSIONAL PRACTICES OF RESIDENTIAL LANDSCAPE DESIGN
Recommended Preparation: HORT 7, 109
Emphasizes the sequencing and development of each phase of the residential landscape design process including working with different types of clients and contractors cost-effectiveness and profitability.

HORT 208 2/1.5/1.5/0
BEGINNING FLORAL DESIGN
Introduction to care and handling of fresh flowers, greens, and plants in floristry. Detailed instruction and demonstrations of arrangements, corsages, and holiday designs will be given along with individual design time for the execution of take-home projects.

HORT 209 2/1.5/1.5/0
ADVANCED FLORAL DESIGN
Recommended Preparation: HORT 208
Advanced techniques in design and composition of floral arranging for the vocational floral student. Emphasis is placed more on complicated lines (Western, European, and Eastern), bridal work, and party work. Retailing practices, pricing techniques, and field trips will be included. Detailed instruction and demonstration of arrangements will be followed by individual design time for execution of take-home projects. R E 2

HORT 289 .5-4/.5-4/.5-9/.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 1

Human Services

HS 37 3/3/0/0
INTRODUCTION TO CRIMINOLOGY

Theories of historical, social, cultural, genetic, psychological, economic, and political causative factors related to crime are covered. Emphasizes the origin of law, it's relationship to society, the organization and functions of law, and the role of law to prevent future criminal behaviors. Focus is placed on the most relevant crimes within our society.

HS 100 3/3/0/0
HUMAN SERVICES IN A CHANGING SOCIETY

An introduction to the human services profession. Explores historical and contemporary perspectives of problems in living and the human services field. Examines models of helping and related values, skills, and roles of the human services professional.

HS 110 3.5/1.5/6/0
FIELD INSTRUCTION AND SEMINAR I

Prerequisite: HS 100
Recommended Preparation: HS 140, 285

Provides supervised field-instruction experience in approved community agencies that serve clients in the field of Human Services. Focus is on beginning development and use of helping skills, client record documentation and service coordination. Self-awareness and beginning professional growth are also emphasized.

HS 119 3/3/0/0
INTRODUCTION TO CRIMINAL JUSTICE SYSTEM

A broad overview of the American criminal justice system. 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. 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 3/3/0/0
HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT

Examines the forces and experiences that shape human development throughout the life course. Explores the role of human services in optimizing human development within the context of the social environment.

HS 128 3/3/0/0
COMMUNITY-BASED CORRECTIONS

A highly interactive exploration of the front-line work in community-based corrections, halfway houses, parole and probation supervision, diversion, youth advocacy, and community programs. Includes both a state and local perspective on functions, successes and limitations in community-based corrections.

HS 131 3/3/0/0
MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES

Focuses on the major cultural, historical, and societal themes in the US and highlights the competencies needed to address and work effectively with people from various ethnic, racial, and religious groups. Examines the knowledge, skills, and attitudes needed for the treatment provider to understand the full context of a client's sociocultural environment and examines those that have been disadvantaged or excluded from mainstream US society. Includes those with co-occurring disorders. Students actively seek understanding across differences, and focus on psychoeducation in subject areas that serve the goals of treatment and rehabilitation.

HS 140 3/3/0/0
GROUP LEADERSHIP AND GROUP PROCESS

An introduction to group dynamics and group leadership within the context of the helping professions. Focuses on group development, interpersonal processes, and group facilitation skills. Concepts related to professional and ethical standards of group leadership are integrated. Application of course concepts occurs through experiential learning opportunities. Letter grade only.

HS 150 3.5/1.5/6/0
FIELD INSTRUCTION AND SEMINAR II

Prerequisite: HS 110
Recommended Preparation: HS 174, 285

Provides continued supervised field-instruction experience in approved human services community agencies. Students increase development of helping skills, client record documentation and service coordination. Emphasizes increased integration of concepts from human services theory courses. R E 3

HS 161 1.5/1.5/0/0
CONFLICT RESOLUTION AND MEDIATION TRAINING

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 3/3/0/0
ALCOHOL AND OTHER DRUGS IN OUR SOCIETY

An historical and sociological perspective on the use, abuse and social control of psychoactive drugs. Includes overviews of the biopsychosical nature of addiction; the impact of addiction on families and society; contemporary treatment and prevention approaches; and the addiction counseling profession.

HS 171 3/3/0/0
SUBSTANCE ABUSE: INTERVENTION, TREATMENT AND RECOVERY

The assessment, intervention and treatment of substance- related disorders are explored from an interdisciplinary perspective. Students learn to tailor helping strategies and treatment modalities to the client's stage of change, development, and recovery. Challenges students to examine their existing ideas about treatment and recovery from substance related disorder. Provider approved by the California Board of Registered Nursing, Provider Number CEP60.

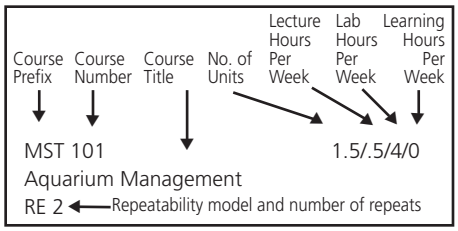
HS 172 3/3/0/0
PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS

Recommended Preparation: PSYC 37

Examines the physiological, psychological, and behavioral effects of drug and alcohol addiction. Pharmacologic management, metabolic, neurological processes, and drug use during the perinatal period are included. Analyzes the effects on human development, the syndromes of withdrawal, abstinence, syngergistic effects, risk factors and integrates multidisciplinary treatment considerations.

HS 174 3/3/0/0
CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL

Introduces basic case administration skills. Includes crisis intervention, treatment planning, securing resources for clients, record documentation, screening, data collection, implementation, and aftercare. Emphasizes care of clients with substance-related and other mental disorders.



HS 175 3/3/0/0
SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION

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 and other drugs. Public policies, media-information dissemination, ethnic and cultural-specific approaches, environmental risk reduction, harm reduction, and healthy alternatives to substance abuse will be presented and discussed.

HS 176 3/3/0/0
CO-OCCURRING DISORDERS

Recommended Preparation: HS 172
An introduction to the assessment process for the presence of co-occurring mental disorders and substance misuse disorders. Explores the relationship of these disorders; emphasizes the development of concurrent integrated treatment strategies, and the skills required of professionals who interact with clients with co-occurring disorders or dual diagnosis.

HS 177 3/3/0/0
FAMILY DYNAMICS OF ADDICTION AND ABUSE

A multifaceted study of violence, abuse, and addiction within the family and social system including abusive acts towards children, significant others, cohabitating relationships, elderly, and special populations. Examines the social and historical contexts of abuse, the relationship of chemical dependency, and the application of models and theories related to working with abused persons, victims of violence, intervention, treatment, legal and ethical considerations surrounding abuse.

HS 181 3/3/0/0
INTRODUCTION TO EATING DISORDERS

Introduces students to the history, symptomatology, treatment and resources for anorexia nervosa, bulimia, binge eating, and other eating disorders. Includes gender, sexual identity and abuse, obesity, cultural differences, societal attitudes, and the addiction cycle. The biological, pyschoanalytic, cognitive-behavioral, feminist, family systems, and other theoretical perspectives will be examined.

HS 182 3/3/0/0
SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS

Recommended Preparation: HS 120, PSYC 7
Explores current treatment trends in substance use and abuse in children and adolescents. Focuses on the continuum of behaviors from first use, to escalation, to more frequent use, leading to a substance related clinical disorder. Intervention, treatment, and recovery strategies for these specialized groups are included.

HS 184 3/3/0/0
MEDICAL ASPECTS OF EATING DISORDERS

Recommended Preparation: HS 181
Identifies classification, epidemiology, etiology, and physiology of obesity, anorexia, bulimia and binge eating disorder. The contemporary methods of assessment, treatment, and complications of obesity, anorexia, bulimia and binge eating disorder are to be examined.

HS 185 3/3/0/0
THE BACKGROUND AND TREATMENT OF EATING DISORDERS

Recommended Preparation: HS 181
Addresses the assessment and diagnosis of functional treatment modalities across settings (inpatient/outpatient), and the use of community support systems for eating disorders. The student will develop a treatment philosophy for eating disorder clients. The end goal is to provide quality treatment by understanding the person behind the eating disorder.

HS 187 3/3/0/0
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, parricide and substance abuse will be presented and assessed. The role of the juvenile justice system, gang cultures, and victimization will be examined. Addresses pragmatic solutions for lowering juvenile violence.

HS 189 .5-4/.5-4/.5-9/.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 1

HS 220 3/3/0/0
BENEFITS AND ENTITLEMENT

Recommended Preparation: HS 172
Focuses on basic and intermediate skills for assessing the income and healthcare coverage needs of the physically and mentally disabled. Includes discussion of state and federal resources and additional assistance.

HS 285 3/3/0/0
ETHICAL ISSUES/CLIENTS' RIGHTS

An introductory course focusing on ethical and legal standards of the human services profession. Emphasizes the relationship of values in the role of counselor, and includes the areas of practice, training, supervision, and consultation.

HS 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Humanities

HUM 1 3/3/0/0
INTRODUCTION TO HUMANITIES

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 3/3/0/0
ORIGINS OF WESTERN CULTURE IN LITERATURE

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 3/3/0/0
THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE
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 courtesy), 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 10A 3/3/0/0
CULTURE, SCIENCE, AND SOCIETY I
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 3/3/0/0
CULTURE, SCIENCE, AND SOCIETY II
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 3/3/0/0
THE SEARCH FOR MEANING: IDEAS OF SELF ACROSS CULTURES
Recommended Preparation: Eligibility for ENG 1A
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 given in either area, not both.

HUM 22 3/3/0/0
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 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 given in either area, not both.

HUM 25 3/3/0/0
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 IDS 5. Credit given in either area, not both.

HUM 189 .5-4/.5-4/.5-9/.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 1

Intercollegiate Athletics

IA 1 2/0/10/0
MEN'S FOOTBALL
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Football. R E 3

IA 2 1 or 2/0/5 or 10/0
MEN'S BASKETBALL
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 2/0/10/0
MEN'S BASEBALL
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Baseball. R E 3

IA 4 2/0/10/0
MEN'S TRACK AND FIELD
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men's Track and Field. R E 2

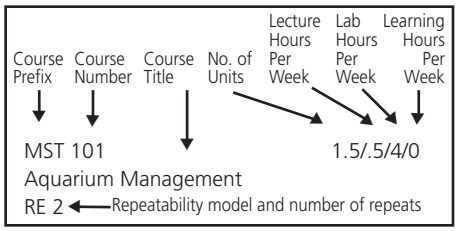
IA 5 2/0/10/0
MEN'S CROSS COUNTRY
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men's Cross Country. R E 2

IA 6 2/0/10/0
MEN'S GOLF
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men's Golf. R E 2

IA 7 2/0/10/0
MEN'S WATER POLO
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men's Water Polo. R E 2

IA 8 2/0/10/0
MEN'S SWIMMING AND DIVING
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 2/0/10/0
MEN'S TENNIS
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men's Tennis. R E 2



IA 10 2/0/10/0
WOMEN'S VOLLEYBALL
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Volleyball. R E 2

IA 11 2/0/10/0
WOMEN'S 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 10/0
WOMEN'S BASKETBALL
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 2/0/10/0
WOMEN'S TENNIS
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Tennis. R E 2

IA 14 2/0/10/0
WOMEN'S SWIMMING AND DIVING
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Swimming and Diving. R E 2

IA 16 2/0/10/0
WOMEN'S TRACK AND FIELD
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Track and Field. R E 2

IA 17 2/0/10/0
WOMEN'S CROSS COUNTRY
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Cross Country. R E 2

IA 18 2/0/10/0
WOMEN'S WATER POLO
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Water Polo. R E 2

IA 19 2/0/10/0
WOMEN'S GOLF
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Golf. R E 2

IA 21 2/0/10/0
WOMEN'S SOCCER
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women's Soccer. R E 2

IA 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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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 writing 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 of a catgalog-listed course petition must be approved by the instructor who will supervise the contract study as well as by division dean and the Office of Instruction.

Insurance Billing

INSR 200 3/3/0/0
ADVANCED CODING AND CERTIFICATION PREPARATION
Recommended Preparation: MA 214A and 215A
Advanced medical coding prepares students for certification as a Certified Procedural Coder (CPC) through the American Academy of Professional Coders (AAPC). Students will develop in-depth understanding of physican-based medical coding using critical thinking skills to abstract the pertinent information from documents, select the right codes, and determine the correct sequence of the codes using International Classification of Disease (ICD-9) and Current Procedural Terminology (CPT) and Health care Common Procedure Coding System (HCPCS). R E 3

INSR 201 4/4/0/0
ADVANCED ICD-9-CM
Corequisite: INSR 202
Prepares students for the inpatient coding process by teaching the rules, guidelines, functions, and complex issues of the ICD-9 using medical records. Students will use specialized software for the completion of the Health Information Management (HIM) processes with emphasis on encoders and groupers. R E 2

INSR 202 1/0/2/0
ENCODERS LAB
Corequisite: INSR 201
Prepares students for the inpatient coding process by teaching the rules, guidelines and functions, and complex issues of the ICD-9 using medical records. Students will use specialized software for the completion of the Health Information Management (HIM) processes with emphasis on encoders and groupers. R E 2

INSR 214A 2.5/2.5/0/0
BASICS IN MEDICAL INSURANCE
Provides for the development of basic medical-insurance billing techniques. Instruction enables the student to understand private and governmental insurances, and reimbursement strategies. Includes basic billing procedures using Medicare, Medi-Cal, and standard health insurance forms. Letter grade only.

INSR 215A 3/3/0/0
CPT-4 AND ICD-9-CM MEDICAL INSURANCE CODING
Provides basic instruction and practice in CPT-4, ICD-9-CM, and HCPCS procedural and diagnostic coding. Gives essential coding information for students interested in insurance billing. Focuses on newest coding techniques and reimbursement strategies. Letter grade only.

INSR 260 1.5/1/1.5/0
COMPUTER APPLICATIONS FOR HEALTHCARE PERSONNEL
Provides orientation to office-based and hospital computer applications including electronic spreadsheets, hospital information systems, billing, and electronic medical records. Focuses on medical billing. Letter grade only (formerly MA 260).

INSR 289 .5-4/.5-4/.5-9/.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 1

Interdisciplinary Studies

IDS 1 3/3/0/0
THE SEARCH FOR MEANING: IDEAS OF SELF ACROSS CULTURES
Recommended Preparation: Eligibility for ENG 1A
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 HUM 21. Credit given in either area, not both.

IDS 2 3/3/0/0
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 given in either area, not both.

IDS 5 3/3/0/0
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.

Interior Design

ID 110 3/3/0/0
FUNDAMENTALS OF INTERIOR DESIGN
Study the design elements and principles related to interior environments. Analysis and critique of floor plans; furniture arrangement; color theory; and coordination of color, texture, and pattern for human environments. Analysis of special environmental considerations for sustainability, green design, and energy conservation in interiors. Overview of the aesthetic and functional assessment of interior furniture, floor, wall, window, illumination, and accessory treatments. (ID Regional Program #ID 100)

ID 111 2/1/3/0
INTERIOR DESIGN STUDIO 1
Recommended Preparation: Completion or concurrent enrollment in ID 110
Designed to apply concepts and theories presented in the lecture course, ID 110, Fundamentals of Interior Design. Fundamentals of Interior Design. Emphasis is placed on the design process in developing solutions for design projects. (ID Regional Program #ID 105)

ID 112 3/2/3/0
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 2/2/0/0
INTERIOR DESIGN CAREERS
Survey of the interior design profession, industry, related occupations, and worksites. Emphasizes personal, educational, and professional qualifications required for entry into the interior design profession. (ID Regional Program #ID 120)

ID 114 4/3/3/0
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)

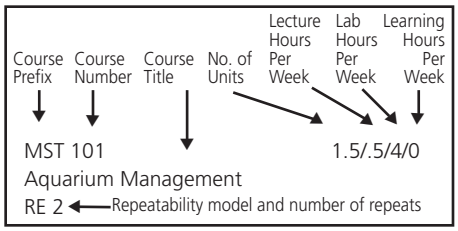
ID 115 3/2/3/0
COMPUTER-AIDED DESIGN/DRAFTING FOR INTERIOR DESIGN
Recommended Preparation: ID 112
Introduces the basic skills, techniques, and uses for computer-aided design and drafting. (ID Regional Program #ID 140) R E 3

ID 116 4/4/0/0
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 3/2/3/0
SPACE PLANNING
Recommended Preparation: ID 112
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 3/3/0/0
HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I
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 2/1/3/0
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 3/3/0/0
HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II
Historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage. 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 2/1/3/0
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 3/3/0/0
FUNDAMENTALS OF LIGHTING
Recommended Preparation: ID 110 and 112
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, new lighting technology, lighting techniques, codes, green, and energy-efficient lighting practices. (ID Regional Program #ID 210)

ID 128 3/3/0/0
BUSINESS AND PROFESSIONAL PRACTICE FOR INTERIOR DESIGN
Recommended Preparation: ID 113
Business and professional management of an interior design practice including legal issues, project management, and business practices. (ID Regional Program # ID 230)

ID 129 1/1/0/0
INTERIOR DESIGN INTERNSHIP
Corequisite: CWE 180
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 2/1/3/0
RENDERING AND RAPID VISUALIZATION FOR INTERIOR DESIGN
Recommended Preparation: ID 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/.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 1

ID 210 2/1/3/0
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 265)

ID 211 2/2/0/0
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 3/1/4/0
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 # ID 270) R E 3

ID 213 2/1/3/0
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 # ID 275)

ID 289 .5-4/.5-4/.5-9/.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 1

International Languages

INTL 189 .5-4/.5-4/.5-9/.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 (formerly FRLG 189). R E 1

Italian

ITA 1 5/5/0/0
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 2 5/5/0/0
ELEMENTARY ITALIAN
Prerequisite: ITA 1 or 1B or two years of high school Italian
Corequisite: ITA 999A
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.

ITA 3 5/5/0/0
INTERMEDIATE ITALIAN
Prerequisite: ITA 2 or three years of high school Italian
Corequisite: ITA 999B
Reviews the fundamentals with further study of the Italian language and culture.

ITA 4 5/5/0/0
INTERMEDIATE ITALIAN
Prerequisite: ITA 3 or four years of high school Italian
Corequisite: ITA 999B
Concentrates on the development of fluency in the skills needed to communicate in Italian. Further study of cultural topics.

ITA 21 3/3/0/0
INTRODUCTION TO ITALIAN CULTURE
Recommended Preparation: College-level reading ability
Designed to provide a brief overview in English of the Italian culture. Areas of study include history, music, literature, philosophy, political ideas, customs and Italy's influence on and contribution to the civilization of America and the world. No prior study of the Italian language or culture is required.

ITA 250 1/3/0/0
PRACTICAL ITALIAN
Emphasizes conversation skills in Italian 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

ITA 999A .25/0/0/1
ITALIAN LANGUAGE LAB
Corequisite: ITA 1, 2
Requires concurrent enrollment in designated Elementary Italian courses. Enhances and provides practice in skills learned in Elementary Italian language courses. R E 3

ITA 999B .25/0/0/1
ITALIAN LANGUAGE LAB
Corequisite: ITA 3, 4
Requires concurrent enrollment in designated Italian courses. Enhances and provides practice in skills in Italian language courses. R E 3

Japanese

JA 1 5/5/0/0
ELEMENTARY JAPANESE
Corequisite: JA 999A
Recommended Preparation: College level reading ability
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. Equivalent to two years high school Japanese.

JA 2 5/5/0/0
ELEMENTARY JAPANESE
Prerequisite: JA 1 or two years of high school Japanese
Corequisite: JA 999A
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). Cultural topics will also be covered.

JA 3 5/5/0/0
INTERMEDIATE JAPANESE
Prerequisite: JA 2 or three years of high school Japanese
Corequisite: JA 999B
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Japanese cultures.

JA 4 5/5/0/0
INTERMEDIATE JAPANESE
Prerequisite: JA 3 or four years of high school Japanese
Corequisite: JA 999B
Emphasizes fluency in speaking, reading, writing, and comprehension of Japanese. Includes selected reading and discussions from the basic four genres in Japanese and Japanese-American literature, culture, and customs.

JA 21 3/3/0/0
INTRODUCTION TO JAPANESE CULTURE
Recommended Preparation: College-level reading ability
Designed to provide a brief overview in English of the Japanese culture. Areas of study include geography, history, literature, art, philosophy, religion, and customs of the Japanese people. No prior study of the Japanese language or culture is required.

JA 250 1/3/0/0
PRACTICAL JAPANESE
Emphasizes conversational skills in Japanese 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

JA 999A .25/0/0/1
JAPANESE LANGUAGE LAB
Corequisite: JA 1, 2
Requires concurrent enrollment in designated Elementary Japanese courses. Enhances and provides practice in skills learned in Elementary Japanese language courses. R E 3

JA 999B .25/0/0/1
JAPANESE LANGUAGE LAB
Corequisite: JA 3, 4
Requires concurrent enrollment in designated Intermediate Japanese courses. Enhances and provides practice in skills learned in Japanese language courses. R E 3

Journalism

JRN 1 3/3/0/0
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 CA 1. Credit given in either area, not both.

JRN 2 3/3/0/0
NEWS WRITING
Prerequisite: Eligibility for ENG 1A
Emphasizes news writing and reporting, methods of news gathering, organization and writing of articles. Includes the interpretation of significant news events and studies techniques of in-depth reporting.

JRN 105 3/3/0/0
FEATURE WRITING
An in-depth study of commercial magazines and company publications including purposes, formats, requirements, feature requirements, market studies, and manuscript submission policies.

JRN 120 4/3/3/0
NEWSPAPER PUBLICATION
Recommended Preparation: ENG 1A or JRN 2
Emphasizes news gathering, judging news values, writing news stories and features, and working as a staff member on the college newspaper and other publications. R E 3

JRN 125 3/2/2/0
MAGAZINE JOURNALISM
Recommended Preparation: ENG 1A, JRN 105, or ENG 3
Introduces distinctive elements of magazine journalism. Provides firsthand experience in the various phases of producing a magazine. R E 3

JRN 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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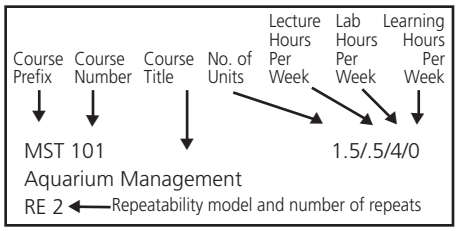


Kinesiology-Adapted

KNEA 1
1 or 1.5/.5 or 1/1.5 or 2/0
ADAPTED PERSONALIZED FITNESS
Fitness class stressing strength, flexibility, and cardiovascular endurance. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability. R E 3

KNEA 2
1 or 1.5/.5 or 1/1.5 or 2/0
ADAPTED WATER EXERCISE AND SWIMMING
Consists of mobility, balance, gait training, strengthening, cardiovascular conditioning, flexibility, range of motion exercises, and modified swimming. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnoses or permanent disabilities. R E 3

KNEA 4
1 or 1.5/.5 or 1/1.5 or 2/0
ADAPTED STRETCHING, BALANCE AND CORE EXERCISES
Fitness class stressing stretching, balance and core strengthening exercises. Designed for students that have temporary and permanent disabilities and/or chronic pain. R E 3

KNEA 6 1.5/0/3/0
ADAPTED SPORTS
Designed for individuals who need assistance and equipment adaptations in activities and sports. R E 3

KNEA 107 1/1/0/0
SURVEY AND ASSESSMENT OF FITNESS
An assessment of the physical condition of the disabled student which includes testing and evaluation of muscular strength and endurance, flexibility, body composition, cardiovascular endurance, skill-related fitness, and aquatic ability. Personality factors will be studied to learn more about stress reduction and lifestyle changes. Information regarding nutrition, weight management, and personal program for lifetime fitness will be presented.

KNEA 189 .5-4/.5-4/.5-9/.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 1

KNEA 289 .5-4/.5-4/.5-9/.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 1

KNEA 300 0/1/2/0
ADAPTED PERSONALIZED FITNESS
Fitness class stressing strength, flexibility, and cardiovascular endurance. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability. R E 99

KNEA 310 0/1/2/0
ADAPTED WATER EXERCISE AND SWIMMING
Consists of mobility, balance, gait training, strengthening, cardiovascular conditioning, flexibility, range of motion exercises, and modified swimming. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnoses or permanent disabilities. R E 99

Kinesiology

KNES 1
1 or 1.5/.67 or 1/1.33 or 2/0
CARDIOVASCULAR CONDITIONING
Focuses on individual cardiovascular and respiratory fitness using cardiovascular conditioning as a way of developing and maintaining health. The activities portion of the course will be tailored to meet the needs of the individual student, considering age, sex and general health. R E 3

KNES 2 2/1/2/0
STRENGTH TRAINING
Focuses on improving strength through individualized training programs. Suited for men and women interested in improving strength, power, and athletic performance. Includes physiology of strength training; equipment and safety considerations; sport specific training; program design for power, strength, and techniques of lifting; and nutrition for optimal performance. R E 3

KNES 3
1 or 1.5/.67 or 1/1.33 or 2/0
CIRCUIT WEIGHT TRAINING
Focuses on circuit training on a personal basis. Modifications of original programs may be needed based upon the results of fitness appraisals at the beginning of the semester. Includes assessment of various components of fitness. R E 3

KNES 4
1 or 1.5/.67 or 1/1.33 or 2/0
WEIGHT TRAINING AND PHYSICAL FITNESS
Basic skills and methods used in weight training. Free weights and machines will be used to develop lean muscle and decrease body fat. Individual workout program on resistance exercise equipment. A combination of KNES 4 and 5 may be taken four times. R A 3

KNES 5
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED WEIGHT LIFTING
Recommended Preparation: KNES 4
Designed for students interested in competing in sports activities and competition. Advanced methods and techniques in weight lifting. A combination of KNES 4 and 5 may be taken four times. R A 3

KNES 6
1 or 1.5/.67 or 1/1.33 or 2/0
CONDITIONING
Instruction and sport specific practice in the techniques of developing and maintaining physical fitness. R E 3

KNES 7
1 or 1.5/.67 or 1/1.33 or 2/0
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

KNES 8
1 or 1.5/.67 or 1/1.33 or 2/0
CARDIO KICKBOXING
A coed fitness course for all ages and abilities for overall body conditioning. Designed to provide students a safe and effective cardiovascular workout that utilizes skills from sports, kickboxing, and self-defense, combined with constant aerobic movement. Strengthens entire body, with progression from beginning through advanced segments. R E 3

KNES 9
1 or 1.5/.67 or 1/1.33 or 2/0
STRETCHING, FLEXIBILITY, AND CONDITIONING
Techniques and application of safe stretching, breathing, body alignment, and muscle conditioning exercises for increase muscle tone and core training. R E 3

KNES 17 1 or 2/.5 or 1/1.5 or 2/0
BEGINNING BOWLING
Basic fundamentals of bowling including equipment, rules, etiquette, terminology, skills and technique. Educational experience by supervised repetition and practice developing skills and proficiencies. Students will learn scoring, common faults, and strategy. A combination of KNES 17 and 18 may be taken four times. R A 3

KNES 18 1/.5/1.5/0
INTERMEDIATE BOWLING
Intermediate techniques and skills of bowling. Understand angle and deflection. Participate in league situations. Establish handicap, and the importance of strategy in bowling. Educational experience by supervised repetition and practice to develop skills and proficiencies. A combination of KNES 17 and 18 may be taken four times. R A 3

KNES 19
1 or 1.5/.67 or 1/1.33 or 2/0
CYCLING/SPINNING
Designed to increase the student's knowledge and skill in cycling/spinning. Develops appreciation of cycling/spinning as a lifetime sport and means of developing and maintaining muscular and cardiorespiratory fitness. R E 3

KNES 20
1 or 1.5/.67 or 1/1.33 or 2/0
BEGINNING GOLF I
Beginning fundamentals of golf skills including rules, etiquette, and terminology. A combination of KNES 20, 21, 22, and 23 may be taken four times. R A 3

KNES 21
1 or 1.5/.67 or 1/1.33 or 2/0
BEGINNING GOLF II
Recommended Preparation: KNES 20
Progression of beginning skills, strategy, and individual stroke analysis. Refinement of beginning game. A combination of KNES 20, 21, 22, and 23 may be taken four times. R A 3

KNES 22 1.5/1/2/0
INTERMEDIATE GOLF
Recommended Preparation: KNES 21
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. Includes the techniques of chipping, putting, sand shots, and wood shots that should enable the students to play a successful round of golf. A combination of KNES 20, 21, 22, and 23 may be taken four times. R A 3

KNES 23
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED GOLF
Recommended Preparation: KNES 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 KNES 20 21, 22, and 23 may be taken four times. R A 3

KNES 24
1 or 1.5/.67 or 1/1.33 or 2/0
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 KNES 24, 25. 26 and 27 may be taken four times. R A 3

KNES 25
1 or 1.5/.67 or 1/1.33 or 2/0
BEGINNING TENNIS II
Recommended Preparation: KNES 24
Designed for the student not quite proficient with strokes and strategy, or the intermediate level of tennis. A combination of KNES 24, 25, 26 and 27 may be taken four times. R A 3

KNES 26
1 or 1.5/.67 or 1/1.33 or 2/0
INTERMEDIATE TENNIS
Recommended Preparation: KNES 25
Emphasis on individual stroke analysis, playing strategy, and match play, singles and doubles. A combination of KNES 24, 25, 26, and 27 may be taken four times. R A 3

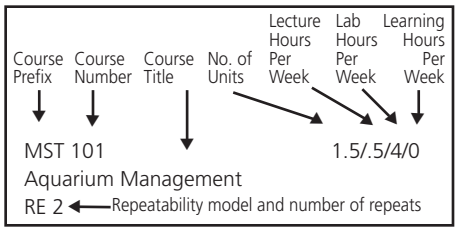
KNES 27
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED TENNIS
Recommended Preparation: KNES 26
Emphasis on advanced techniques, playing strategy, and match play, singles, doubles and mixed doubles. Field trips may be required. A combination of KNES 24, 25, 26, and 27 may be taken four times. R A 3

KNES 28
1 or 1.5/.67 or 1/1.33 or 2/0
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

KNES 29
1 or 1.5/.67 or 1/1.33 or 2/0
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. R E 3

KNES 30
1 or 1.5/.67 or 1/1.33 or 2/0
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 KNES majors and those interested in intercollegiate competition. R E 3

KNES 31
1 or 1.5/.67 or 1/1.33 or 2/0
MUSCLE TONING FOR WOMEN
For women of any age and fitness level desiring development of muscular fitness. For those who are starting a muscle toning program or wanting to improve an existing training regimen. 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



KNES 33 1/.67/1.33/0
BEGINNING SURFING I
Limitation: Must pass swim test
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. Students will be required to provide own equipment and display an understanding of appropriate surfing equipment. A combination of KNES 33, 34, 35 and 36 may be taken four times. R A 3

KNES 34 1/.67/1.33/0
BEGINNING SURFING II
Limitation: Must pass swim test
Recommended Preparation: KNES 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 KNES 33, 34, 35 and 36 may be taken four times. R A 3

KNES 35 1/.67/1.33/0
INTERMEDIATE SURFING
Limitation: Must pass swim test
Recommended Preparation: KNES 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, sideslip, crossover, and walk to nose. Students will become confident in riding surf four feet and larger. Students provide own equipment. A combination of KNES 33, 34, 35, and 36 may be taken four times. R A 3

KNES 36 1/.67/1.33/0
ADVANCED SURFING
Limitation: Must pass swim test
Recommended Preparation: KNES 35
Designed to meet the needs of the advanced surfer interested in extreme maneuvers and competing at the collegiate level. Students provide own equipment. A combination of KNES 33, 34, 35 and 36 may be taken four times. R A 3

KNES 40 1.5/1/2/0
POWER YOGA
Recommended Preparation: KNES 28
Blending the principles and practices of Hatha Yoga, Astanga Yoga, and Pilates techniques for total body fitness. Practice will include Hatha Yoga for flexibility and body balance, Astanga Yoga focusing on strength and cardiovascular training, and Pilates techniques to increase concentration and core stabilization. R E 3

KNES 41
1 or 1.5/.67 or 1/1.33 or 2/0
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 KNES 41, 42 and 43 may be taken four times. R A 3

KNES 42
1 or 1.5/.67 or 1/1.33 or 2/0
INTERMEDIATE SWIMMING
Recommended Preparation: KNES 41
Designed to teach more intermediate 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 KNES 41, 42 and 43 may be taken four times. R A 3

KNES 43
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED SWIMMING AND DIVING
Recommended Preparation: KNES 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 KNES 41, 42 and 43 may be taken four times. R A 3

KNES 44
1 or 1.5/.67 or 1/1.33 or 2/0
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

KNES 45
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED WATER POLO (COED)
Recommended Preparation: IA 7 or 8 or 14 or 18
Designed for students of advanced ability in water polo who have competed on an intercollegiate water polo team or equivalent. Fundamentals in all aspects of play will be stressed. Recommended for kinesiology majors and those interested in intercollegiate competition. R E 3

KNES 47 3/3/0/0
LIFEGUARD TRAINING
Limitation: Successfully complete the swim pre-test
Recommended Preparation: KNES 43
Instruction in lifeguarding and lifesaving techniques, cardiopulmonary resuscitation, and basic first aid that will facilitate successful completion of the American National Red Cross Lifeguard Training Certificate, Community First Aid and Safety Certificate and CPR for the Professional Rescuer Certificate. R 99

KNES 48 2/1/2.5/0
ARC WATER SAFETY INSTRUCTOR/ INSTRUCTOR-CANDIDATE TRAINING
Recommended Preparation: Advanced swimming skills evidenced by passing grade on written exam and demonstration of advanced skills or KNES 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 both an Instructor Candidate Training certificate and a Water Safety Instructor certificate. R 99

KNES 49
1 or 1.5/.67 or 1/1.33 or 2/0
AQUA AEROBICS
Instruction and practice in water aerobics exercise. Emphasis will be placed on toning, trimming and firming skeletal muscles through water resistance exercises. Increasing flexibility, strengthening the cardiovascular system, and improving the respiratory system will also be stressed. R E 3

KNES 50
1 or 1.5/.67 or 1/1.33 or 2/0
AEROBIC DANCE
Aerobic dance is a fitness program which combines vigorous aerobic dance combinations with a variety of musical rhythms. R E 3

KNES 51 3/3/0/0
INTRODUCTION TO KINESIOLOGY AND ATHLETICS
An overview of kinesiology and coaching, professional preparation, philosophies, and employment opportunities. Characteristics of the field are viewed from a broad theoretical and practical perspective.

KNES 52 3/3/0/0
FUNDAMENTALS OF HUMAN MOVEMENT
Basic scientific principles of human movement related to various forms of sport and exercise. Fundamentals of anatomy, exercise physiology, biomechanics, and motor control will be presented in class with the goal of improving physical performance. Analyses of movements involved in various activities will be performed using demonstration, videography and student participation.

KNES 53 3/3/0/0
PREVENTION AND CARE OF ATHLETIC INJURIES
Designed to assist trainers, coaches, kinesiology, 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.

KNES 54 3/3/0/0
PRINCIPLES AND FUNDAMENTALS OF COACHING
Recommended Preparation: KNES 53
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.

KNES 56 2/1/2/0
ATHLETIC TRAINING FIELD WORK
Recommended Preparation: KNES 53
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

KNES 57 2.5/0/5/0
SKILLS, TECHNIQUES, AND THEORY OF SONGLEADING AND CHEERLEADING
Designed for song and yell leaders or physical education and recreation majors. Instruction, practice, and evaluation of song and cheerleading. Fieldwork may be required. R E 3

KNES 63 1/.67/1.33/0
ROCK CLIMBING
Fundamentals of rock climbing with emphasis on the technical principles of climbing, proper equipment, rope use and knot-tying. Course will also cover environmental concerns with a strong emphasis placed on safety. R E 3

KNES 65
1 or 1.5/.67 or 1/1.33 or 2/0
PILATES CONDITIONING
Fundamentals of floor exercise emphasizing the principles of Joseph Pilates. Exercises to improve abdominal and back strength, flexibility, and postural alignment. Pilates involves integrating the physical and mental aspects of movement to correct imbalances in the body. Enhancement in any movement-based program, such as dance, sports, or exercise programs. Challenging to all fitness levels. Proper breathing techniques are emphasized. Also listed as DANC 65, credit given in either area, not both R E 3

KNES 66
1 or 1.5/.67 or 1/1.33 or 2/0
CORE TRAINING
Designed to improve core strength, coordination, balance, quickness, and agility. Emphasis will be placed on medicine ball and bosu ball training for muscle enhancement to maximize performance. R E 3

KNES 67 1/0/0/2
LIFETIME FITNESS
Develops and encourages positive attitudes and habits in an exercise program for life. Designed to enhance the five health-related components of fitness. The primary training activities utilize resistance equipment, treadmills, stationary bikes and cross trainers. Includes progress charts and assessment of fitness components. R E 3

KNES 68
1 or 1.5/.67 or 1/1.33 or 2/0
WALKING FOR FITNESS
Walking for fitness is an exercise program designed for students of all ages and skill levels striving for a healthier lifetime activity. Walking lowers the risks of becoming obese, having cardiovascular disease, diabetes, osteoporosis, and high blood pressure. Includes techniques of walking, safety, attire, stretching, nutrition, and monitoring heart rate. Off-campus walks may be required. R E 3

KNES 69
1 or 1.5/.67 or 1/1.33 or 2/0
TRAIL HIKING
Exploration of scenic trails including the coast, canyons, parks, hills, and open space areas. All hikes can be completed during class time on off-campus trails. R E 3

KNES 70
1 or 1.5/.67 or 1/1.33 or 2/0
BASKETBALL
Instruction and supervised practice in basic basketball fundamentals. Development of various methods of individual and team play. A combination of KNES 70 and 71 may be taken four times. R A 3

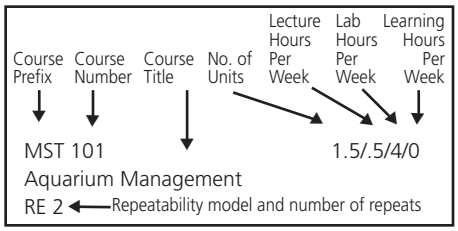
KNES 71
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED BASKETBALL
Recommended Preparation: Participation on an interscholastic team
Designed for students of advanced ability in basketball skills who have competed on an intercollegiate team or its equivalent. Offensive and defensive skills as well as advanced strategies will be stressed. Recommended for kinesiology majors and those interested in intercollegiate competition. A combination of KNES 70 and 71 may be taken four times. R A 3

KNES 72
1 or 1.5/.67 or 1/1.33 or 2/0
BEGINNING SOCCER
Basic fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, defensive tactics, and knowledge of rules. A combination of KNES 72 and 73 may be taken four times. R A 3

KNES 73
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED SOCCER
Recommended Preparation: KNES 72
Advanced fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, and defensive tactics, and knowledge of rules. A combination of KNES 72 and 73 may be taken four times. R A 3

KNES 74
1 or 1.5/.67 or 1/1.33 or 2/0
COED SOFTBALL--SLOW PITCH
Playing coed slow pitch softball games to learn fundamentals of offense, defense, and basic skills. R E 3

KNES 75
1 or 1.5/.67 or 1/1.33 or 2/0
ADVANCED SOFTBALL FOR WOMEN
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 kinesiology majors and those interested in intercollegiate competition. R E 3



KNES 76 **1 or 1/5/.67 or 1/1.33 or 2/0**
BEGINNING VOLLEYBALL
The basic skills and rules of volleyball are introduced. Rules, strategy, skill practice, and class competition are included. Course is orientated to the beginning volleyball student. A combination of KNES 76, 77 and 78 may be taken four times. R A 3

KNES 77 **1 or 1.5/.67 or 1/1.33 or 2/0**
INTERMEDIATE VOLLEYBALL
Recommended Preparation: KNES 76
Designed to give the intermediate student the opportunity to improve the basic skills of volleyball. Rules, and strategy, skill practice in passing, setting, hitting, serving, blocking are included. The student is introduced to basic offense and defense systems of play. A combination of KNES 76, 77 and 78 may be taken four times. R A 3

KNES 78 **1 or 1.5/.67 or 1/1.33 or 2/0**
ADVANCED VOLLEYBALL
Recommended Preparation: KNES 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 KNES 76, 77 and 78 may be taken four times. R A 3

KNES 79 **1 or 1.5/.67 or 1/1.33 or 2/0**
ADVANCED BASEBALL
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 kinesiology majors and those interested in intercollegiate competition. R E 3

KNES 80 **1 or 1.5/.67 or 1/1.33 or 2/0**
ADVANCED FOOTBALL
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, defense, and kicking skills, as well as advanced strategies will be stressed. Recommended for kinesiology majors and those interested in intercollegiate competition. R E 3

KNES 81 **1/.67/1.33/0**
BEACH VOLLEYBALL
Introduction to beach volleyball. Rules, strategy, skill practice, and class competition are included. R E 3

KNES 82 **1 or 1.5/.67 or 1/1.33 or 2/0**
RECREATIONAL BASEBALL
Recreational baseball played in a competitive game format. Emphasizes rules, conditioning, offensive and defensive playing skills and teamwork. R E 3

KNES 90 **1 or 1.5/.67 or 1/1.33 or 2/0**
SELF-DEFENSE (COED)
Techniques of basic self-defense recommended for both men and women. R E 3

KNES 93 **1 or 1.5/.67 or 1/1.33 or 2/0**
KARATE
Designed to teach the basic art of Karate. Emphasizes mental and physical conditioning to develop coordination, balance, strength, speed, and power. Instruction in the history, philosophy, and psychology of Karate and the martial arts. R E 3

KNES 94 **1 or 1.5/.67 or 1/1.33 or 2/0**
BEGINNING AIKIDO
Aikido is a relatively modern Japanese martial art based upon nonresistance rather than strength. It is a nonaggressive, noncompetitive art based upon a philosophy that stresses harmony with nature and control of body and mind. In Aikido, an attack is never stopped; it is guided in a way that causes the attacker to be thrown by the momentum of his own attack. Aikido develops the individual mentally as well as physically. Physically it produces good posture, physical skill, and quickness of body reflexes. Mentally it develops determination, and responsibility. A combination of KNES 94 and 96 may be taken four times. R A 3

KNES 96 **1 or 1.5/.67 or 1/1.33 or 2/0**
ADVANCED AIKIDO
Recommended Preparation: KNES 94
Fundamental Aikido principles and refinement of the basic movements of Aikido. Introduction of the concepts of open hand defense against weapons, kneeling techniques, and advanced Ukemi techniques (i.e. forward break falls, backward rolls, and free style) to prevent injury. Leadership, etiquette, demeanor, dress and a high level of level of preparation will be emphasized. A combination of PE 94 and 96 may be taken four times. R A 3

KNES 105 **3/3/0/0**
MENTAL SKILLS FOR SPORTS PERFORMANCE
Focuses on psychological and physical aspects of competition and ways to enhance performance: stress management techniques, visualization, imagery, and goal setting. Explores training methods for the body and mind. Designed for both the weekend athlete and the serious intercollegiate competitor.

KNES 107 **1/1/0/0**
SURVEY AND ASSESSMENT OF FITNESS
An assessment of the physical condition of the student which includes testing and evaluation of muscular strength and endurance, flexibility, body composition, cardiovascular endurance, skill-related fitness, and aquatic ability. Personality factors will be studied to learn more about stress reduction and lifestyle changes. Information regarding nutrition, weight management, and personal program for lifetime fitness will be presented. Different testing and assessment techniques will be used in this course.

KNES 189 **.5-4/.5-4/.5-9/.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 1

Korean

KOR 1 **5/5/0/0**
ELEMENTARY KOREAN
Corequisite: KOR 999A
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in daily spoken Korean. Emphasis is on reading and writing skills, as well as fundamental aspects of culture. Equivalent to two years high school Korean.

KOR 2 5/5/0/0
ELEMENTARY KOREAN
Prerequisite: KOR 1 or two years of high school Korean
Corequisite: KOR 999A
Designed to further the fundamentals of communicative competence in daily spoken Korean. 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.

KOR 21 3/3/0/0
INTRODUCTION TO KOREAN CULTURE
Recommended Preparation: College-level reading ability
Designed to provide a brief overview in English of the Korean culture. Areas of study include geography, history, literature, philosophy, religion, and customs of the Korean people. No prior study of the Korean language or culture is required.

KOR 250 1/3/0/0
PRACTICAL KOREAN
Emphasizes conversational skills in Korean 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

KOR 999A .25/0/0/1
KOREAN LANGUAGE LAB
Corequisite: KOR 1, 2
Requires concurrent enrollment in designated elementary Korean courses. Enhances and provides practice in skills learned in elementary Korean courses. R E 3

Library

LIB 2 3/3/0/0
ADVANCED INFORMATION COMPETENCY SKILLS: ONLINE SEARCHING
Recommended Preparation: LIB 100 or 101
Develops students' research and information competency skills. One aspect of information competency is making maximum use of online catalogs, full text periodical databases, internet resources, and a variety of in-library materials. Students will also practice making decisions about focusing their research, finding the best resources, and using their sources appropriately. Students will evaluate information for accuracy, credibility, and bias as a central focus of this course. Students can then apply these principles to fulfill their research goals in other settings.

LIB 100 1/0/2/0
BASIC INFORMATION COMPETENCY SKILLS: LIBRARY RESEARCH
Designed to provide the student with an understanding of print and electronic reference sources available in an academic library, as well as research skills that can be used to find information for papers, presentations, and other class assignments.

LIB 101 1/1/0/0
INTERMEDIATE INFORMATION COMPETENCY SKILLS: SEARCH STRATEGIES
Designed to develop effective search strategies; to locate and critically evaluate information; and to recognize the ethical, legal, and sociopolitical implications of information.

LIB 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Manufacturing Technology

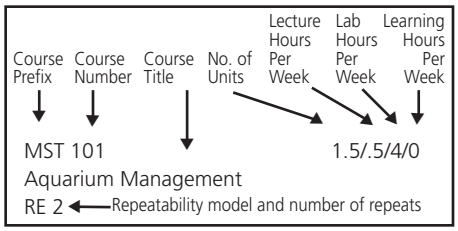
MFG 200 3/2/3/0
INTRODUCTION TO RAPID-PROTOTYPING TECHNOLOGY
Recommended Preparation: ARCH/ DR 50 and 51
A comprehensive study of the newly emerged technology of rapid prototyping (RP). Primary topics will include prototype fundamentals, terminology, main categories and RP machine technology types, advantages vs. disadvantages of varied RP technologies, materials and finishing for RP model making. Features applied laboratory activities in RP model making and post-production finishing on several different "state-of-the-art" rapid prototyping machines. R E 3

MFG 201 2/1/3/0
ADVANCED CAD MODEL MAKING AND TOOLING
Prerequisite: MFG 200
Recommended Preparation: ARCH/ DR 50 and 51
A comprehensive study of rapid prototyping (RP), additive manufacturing tooling, and secondary processes. Includes stereo lithography (SLA), fused depostion modeling (FDM), three dimensional printing (3DP), and multi-jet modeling (MJM) machine operations. Students apply advanced materials secondary processes and finishing for RP models, resin casting, vacuum forming, silicone mold making and composites. Activities include finishing on several rapid prototyping machines and secondary processing equipment. Magics RP will be used for tool creation and repair of STL files. R E 3

MFG 202 2/2/0/0
INDUSTRIAL MATERIALS
Study of metals and non-metals common to industry; mining, physical and chemical properties and uses lattice structure, alloy systems, mechanical tests and characteristics of strength, elasticity, ductility, malleability, heat treatment and surface coatings. R E 3

MFG 203 2/1/3/0
INTRODUCTION TO MANUFACTURING PROCESSES
Study of modern manufacturing techniques. The use of machine tools, testing devices, and inspection methods and the relation of design to production and assembly. R E 3

MFG 204 3/2/4/0
3D COMPUTER AIDED DESIGN - SOLIDWORKS
Recommended Preparation: DR or ARCH 50/51
A course in the operation and application of modern computer-aided design using Solidworks. Includes development of 3D computer models from concept to rapid prototyping, component parts, drawings, and assemblies. R E 3



MFG 205 3/2/3/0
SILICONE AND URETHANE MOLD MAKING

A comprehensive study of silicones and urethanes, their similarities and differences and how they are applied during the mold-making process. Topics will include types of silicones, types of urethanes and common molding practices. This hands-on class will require students to create silicone and urethane molds of various types. Includes vents, sprue, parting lines, and keys. Students will create several types of silicone and urethane molds including open face, two-piece, glove, shell, and reinforced mother molds. Industries that use this type of technology include theater, art, rapid manufacturing, jewelry making, part design, and engineering. R E 3

MFG 206 3/2/3/0
RESIN AND FOAM CASTING

Prerequisite: MFG 205

A comprehensive study of resins and foams commonly used in the casting industry, their applications, similarities and differences. Students will learn how to assess the mechanical properties of the casting resins to achieve the best possible casting for a specific project. Students will cast a variety of objects utilizing different materials. Students will use the molds created in the silicone and urethane mold-making class. R E 3

MFG 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Marine Science

MS 4 4/3/3/0
SOUTHERN CALIFORNIA COASTAL ECOLOGY

Emphasizes subtidal, tidal, coastal and estuarian environments and man's impact on the ecosystem. Field trips may be required to fulfill the objectives of this course.

MS 20 4/3/3/0
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.

MS 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Marine Science Technology

MST 10 3/2.5/1.5/0
INTRODUCTION TO AQUACULTURE

Historical, contemporary, and technological advancements in the science of rearing marine and freshwater organisms used for fisheries enhancement, ornamental trade, and food production. Organisms, culture systems, and the practical knowledge used to culture them will be explored. The impact of technology and conservation issues will be covered. Labs will focus on aquaculture techniques used in industry with practical hands-on experience.

MST 100 3/2.5/1.5/0
AQUARIUM SYSTEMS

Theory and application of aquarium science in the design, setup and maintenance of the basic to reef aquarium system. Topics include the chemical, physical and biological environment, water quality, filtration, lighting, health and nutrition, and species compatibility. Lab will require setup and maintenance of a marine aquarium.

MST 101 1.5/.5/4/0
AQUARIUM MANAGEMENT

Recommended Preparation: MST 100

Designed to integrate good management practices while developing increased level of skills and responsibilities in aquatic animal husbandry. Students will install, operate, troubleshoot and maintain life support systems and care for aquatic animals in the aquarium science facility. R E 2

MST 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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MST 201 2/1/2/0
MARLINSPIKE SEAMANSHIP

Develop self-reliance and seamanship by studying the fundamentals of knotting, splicing, sail repair, deck seamanship, emergency repair, rigging, and decorative knots. Traditional and modern knotting and splicing are included. R E 3

MST 202 3/3/0/0
MARINE WEATHER

Basic principles of meteorology and certain related aspects of oceanography are 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 203 3/2.5/1.5/0
ECOLOGY OF CAPTIVE FISH AND INVERTEBRATES

Survey of the fish and invertebrates encountered in the world trade and exhibition of living marine ornamentals; emphasis in conservation research and advancement of aquatic husbandry techniques. The compatibility, propagation potential, captive breeding as well as current policies that govern their use and care will be covered. R E 1

MST 204 3/2.5/1.5/0
AQUATIC ANIMAL HEALTH AND DISEASE MANAGEMENT

Introduction to the common disease, their causes and health management of marine and freshwater organism used for enhancement, ornamental trade, and food production. The response of animals to numerous pathogens and syndromes will be discussed along with the methods of treating and avoiding these diseases. Clinical and non-clinical diagnostic procedures for the determination of disease will also be reviewed. R E 1

MST 205 3/2.5/1.5/0
WATER QUALITY AND TOXICITY OF CAPTIVE AQUATIC SYSTEMS

How water quality and toxicity impacts and is impacted by aquatic organisms. Includes the measurement of water quality parameters, and different treatments. Labs will focus on techniques for measuring parameters and methods of treatment. R E 1

MST 206 3/2.5/1.5/0
AQUATIC SYSTEM DESIGN AND LIFE SUPPORT
Recommended Preparation: MST 10
Principles of fluid mechanics, functional operation, facility planning, construction, and design of aquatic life support and auxiliary structures will be introduced and demonstrated. R E 1

MST 207 1.5/1.5/0/0
INTERNSHIP AQUARIUM/AQUACULTURE SCIENCE
Prerequisite: MST 10 or 100
Corequisite: CWE 180
Recommended Preparation: MST 101, 203, 205
Combines on-campus instruction with work experience at local public, research, or commercial aquarium or aquaculture facilities for on-the-job training while learning aquatic husbandry skills. R E 1

MST 210 3/2/2/0
COASTAL NAVIGATION
In-depth study of chart use, navigation aids, plotting, dead-reckoning, piloting, and electronic navigation. Includes analysis of currents and tides, and position finding using visual and electronic means. R E 2

MST 211 3/2/2/0
CELESTIAL NAVIGATION
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 3/2/2/0
SAILING, SEAMANSHIP, AND BOATING SAFETY
Techniques of small-boat handling, rules of the road, coastal piloting, safety at small-craft maintenance. Emphasis is placed on practical experience gained during at-sea laboratory sessions aboard the college fleet of Capri 14's. R E 3

MST 214A 3/2/2/0
INTERMEDIATE OCEAN SAILING
Recommended Preparation: MST 212 or basic sailing skills
Theory and practical seamanship aspects of maneuvering auxiliary sailboats under power and sail during weekly sailing labs and lectures. Includes theory and practice of efficient sailing, anchoring, meeting emergency situations under sail and planned response to local weather conditions. Also introduces maneuvers under power, rules-of-the-road, aids to navigation and other piloting skills. Information and experience gained will qualify student as boat owner or crew member for knowledgeable sailing in local coastal waters. R E 3

MST 214B 3/2/2/0
ADVANCED CRUISING UNDER SAIL
Recommended Preparation: MST 214A and basic sailing skills
Practical advanced seamanship aspects of cruising auxiliary sailboats to the offshore islands during 2 three day cruising labs and biweekly lectures. Includes theory and practice of provisioning and preparing the vessel, watch- standing, night sailing, and response to emergency situations and weather conditions. Also covers advanced sailing techniques, reviews docking and mooring, safe overnight anchoring, rules of the road/aids to navigation, and piloting skills. Information and experience gained will qualify student as boat owner or crew member for knowledgeable sailing in offshore and Channel Island waters. R E 3

MST 215 3/2/2/0
VESSEL COMMAND AND ORGANIZATION
Recommended Preparation: MST 214B
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 supervisions of efficient sailing, safe anchoring, docking and mooring, emergency situations under sail, and planning response to local weather conditions. Also practical application of rules of the road, piloting, and navigational skills. R E 3

MST 216 3/2/2/0
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

MST 217 2/1.5/1.5/0
SUB SEA TECHNOLOGY-REMOTELY OPERATED VEHICLE (ROV)
The latest developments in sub-sea exploration, emphasizing remotely operated vehicles (ROVs) will be covered. Students will gain firsthand experience with underwater vehicle construction while learning the history, technology, application and impact of ROVs and the problems and techniques as they build a shallow-diving remotely operated vehicle (ROV). R E 3

MST 218 3/2/2/0
ELECTRONIC AIDS TO NAVIGATION
Recommended Preparation: MST 210
A study of the operation and function of electronic navigational aids as they are used on board a vessel at sea. Includes GPS, autopilot, depth meter, chart plotter, and radar with hands on laboratory sessions practicing techniques for their operation. Students will be able to integrate the various instruments into a cohesive unit for safe navigation of a seagoing vessel. R E 3

MST 219 3/1/4/0
MARINE ECOLOGICAL SURVEY/GIS
Recommended Preparation: MS 20, GEOG 110
Integrates the collection of marine coastal and local inshore biological, physical, geological, and chemical data with GIS mapping using GPS navigational technology. Students will collect data, evaluate, and process data collected by others, and develop this data spatially into a format compatible with a GIS grid for manipulation, presentation, and reporting. Basic marine ecological concepts will be explored linking GPS navigational data with global information systems cartography. R E 3

MST 224 1.5/1/1/0
INTRODUCTION TO CRUISING THE CHANNEL ISLANDS
Through a combination of classroom lectures and a 3-day sailing voyage, students gain knowledge, skill, and experience in ocean cruising under sail. Provides a foundation of seamanship skills and experience navigating and handling a cruising sailboat. Prepares students for more advanced seamanship courses, and provides experience for personal growth. R E 3

MST 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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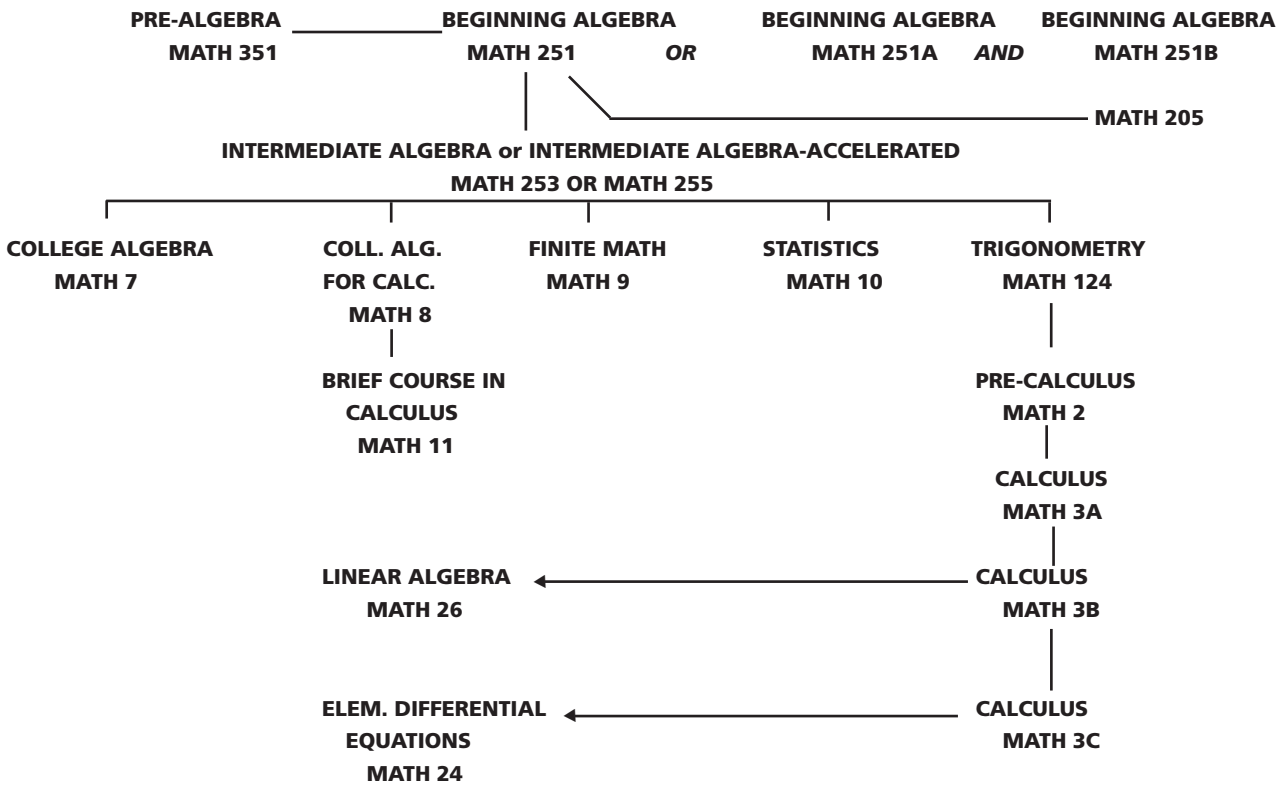
Guidelines for Enrollment in Mathematics

MATHEMATICS COURSE SEQUENCE



Courses

Advisory on achieving mathematics competency

Students seeking the Associate degree are required to achieve a minimum score on a standardized examination or complete a mathematics course other than MATH 351 with a grade of C or better. In order to achieve a grade of C or better without repeating a course for a substandard grade, the following strategies are recommended:

1. Students enrolling in mathematics courses are encouraged to plan enrollments in consecutive semesters, satisfying a prerequisite and enrolling in the next course the following term
2. Select five unit courses which are schedule to meet three times per week or select three unit courses which meet twice per week
3. Plan to spend a minimum of three hours per week in homework per unit of credit which includes completing all assigned homework. Focus on the steps needed to solve problems, not just selecting the right answer to a problem
4. Notify your instructor by email or telephone if you are having difficulties in the course; schedule office hour appointments with faculty regularly; take advantage of tutoring and other resources that your instructor recommends to you.

If you follow these recommendations, it is possible for you to complete the mathematics requirement without repeating a course. Contact the Division of Math, Science and Engineering if you have questions about specific sections of courses.

Mathematics

MATH 2 5/5/0/0
PRE-CALCULUS MATHEMATICS
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.

MATH 3A 5/5/0/3
ANALYTIC GEOMETRY AND CALCULUS
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.

MATH 3B 5/5/0/0
ANALYTIC GEOMETRY AND CALCULUS
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 3C 5/5/0/0
ANALYTIC GEOMETRY AND CALCULUS
Prerequisite: MATH 3B
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, the divergence theorem.

MATH 7 5/5/0/0
COLLEGE ALGEBRA
Prerequisite: MATH 253 or 255
This is a college algebra course designed for the general education student. Topics include: 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.

MATH 8 5/5/0/0
COLLEGE ALGEBRA FOR BRIEF CALCULUS
Prerequisite: MATH 253 or 255
Designed to prepare students for success in: A Brief Course in Calculus (MATH 11). Polynomial, rational, exponential, and logarithmic functions. Matrices, determinants, and systems of linear equations and inequalities. Absolute value equations and inequalities. Polynomial equations and inequalities.

MATH 9 3/3/0/3
FINITE MATHEMATICS
Prerequisite: MATH 253 or 255
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.

MATH 10 3/3/0/3
INTRODUCTION TO STATISTICS
Prerequisite: MATH 253 or 255
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.

MATH 11 5/5/0/0
A BRIEF COURSE IN CALCULUS
Prerequisite: MATH 8
A review of algebra topics. Matrix algebra, Gauss-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.

MATH 24 4/4/0/0
ELEMENTARY DIFFERENTIAL EQUATIONS
Prerequisite: MATH 3C
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.

MATH 26 4/4/0/0
INTRODUCTION TO LINEAR ALGEBRA
Prerequisite: MATH 3B
Includes the study of vectors, vector-spaces and subspaces, matrices, systems of linear equations, dimension, determinants, eigenvalues, and linear transformations.

MATH 124 3/3/0/0
TRIGONOMETRY
Prerequisite: MATH 253 or 255
An introduction to trigonometric functions with emphasis on both the unit circle and the right triangle methodologies.

MATH 205 3/3/0/0
MATH FOR THE ASSOCIATE DEGREE
Prerequisite: MATH 251
Learn problem solving skills and analytical thinking to investigate areas such as consumer concerns, probability, statistics, and mathematics in the work place. This course meets the minimum general education mathematics requirement and is not a prerequisite for higher level math courses.

MATH 251 5/5/0/0
BEGINNING ALGEBRA
Prerequisite: MATH 351
An introduction to the basic properties of real numbers, numbers and sets, operations with real numbers, solving linear and quadratic equations, and inequalities in one variable, systems of equations, operations with fractions, functions, relations and graphs, operations with polynomials, special products and factoring.

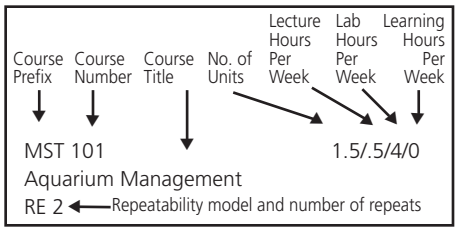
MATH 251A 3/3/0/0
BEGINNING ALGEBRA PART 1
Prerequisite: MATH 351
This is the first of a two-semester sequence of courses that is equivalent to MATH 251. Topics include linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, solving systems of linear equations, operations with polynomials, and simplifying exponential expressions.

MATH 251B 3/3/0/0
BEGINNING ALGEBRA PART 2
Prerequisite: MATH 251A
The second of a two-semester sequence of courses that is equivalent to MATH 251. Topics include factoring polynomials, simplifying rational and radical expressions, solving rational, radical and quadratic equations.

MATH 253 5/5/0/0
INTERMEDIATE ALGEBRA
Prerequisite: MATH 251
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.

MATH 255 3/3/0/0
INTERMEDIATE ALGEBRA-ACCELERATED
Prerequisite: MATH 251
Accelerated course designed for those with a strong grasp of beginning algebra topics. Because less time is spent on review topics, this course may be more difficult than Math 253. Topics include linear, quadratic, exponential, and logarithmic functions, complex numbers, sequences, series, binomial expansions, quadratic, logarithmic, and exponential equations, and nonlinear inequalities.

MATH 289 .5-4/.5-4/.5-9/.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 1



MATH 351 3/3/0/0
PRE-ALGEBRA MATHEMATICS
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 with 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. R E 1

MATH 924 .5/0/0/3
DIFFERENTIAL EQUATIONS LABORATORY
Corequisite: MATH 24
An investigation of the characteristics of the solutions of ordinary differential equations using a computerized solver.

Medical Assisting

MA 210 2/2/0/0
INTRODUCTION TO MEDICAL ASSISTING
Provides a core curriculum for the medical assistant program. Includes an introduction to the healthcare field, medical ethics, legal aspects, and a review of body systems in health and disease. Letter grade only.

MA 211A 2.5/2.5/0/0
MEDICAL RECEPTION TECHNIQUES
Provides development of selected medical front-office skills. Includes the primary reception techniques of oral communication, telephone procedures, and scheduling systems, including referral appointments. Letter grade only.

MA 211B 3/2/3/0
PHYSICAL-EXAMINATION PROCEDURES
Includes selected medical office clinical skills of physical measurement, recording medical histories and assisting with general physical and specialty examinations. An introduction to radiology and physical therapy is included to assist in patient scheduling and patient instruction. Letter grade only.

MA 212A 2.5/2.5/0/0
MEDICAL OFFICE FINANCIAL PROCEDURES
Develops selected medical front office financial skills. Includes medical billing, credit arrangements, collections, bookkeeping, banking procedures, medical office equipment and facilities management. Letter grade only.

MA 212B 3/2/3/0
MEDICAL OFFICE LABORATORY PROCEDURES
Develops selected medical-office laboratory skills. Includes techniques necessary to perform the procedures related to urine and blood testing, including venipuncture. Meets state requirement for medical assistant phlebotomy and skin puncture certificate. Letter grade only.

MA 213A 2.5/2.5/0/0
MEDICAL RECORDS MANAGEMENT
Develops selected medical front- office skills including medical forms, patient records, legal aspects of medical records, filing systems, filing procedures and written communication. Letter grade only.

MA 213B 3/2/3/0
MEDICAL ASEPSIS AND SURGICAL PROCEDURES
Develops selected medical-office clinical skills including medical and surgical asepsis, minor surgical techniques and medical office facilities and equipment management. Letter grade only.

MA 214B 3/2/3/0
MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS
Develops techniques in medication administration. Includes instruction and laboratory practice in pharmacology, pharmacology mathematics, and the procedures involved in oral and injectable medication administration. Meets state requirement for medical assistant injections. Certificate awarded for intramuscular, subcutaneous, and intradermal injections. Letter grade only.

MA 217A 3/0/9/0
MEDICAL ASSISTING CLINICAL EXPERIENCE--ADMINISTRATIVE
Prerequisite: Enrollment in Medical Assistant Program and completion of MA 210, 211A, 212A, 213A, HSC 201, 222, and INSR 214A, 215A, 260
Provides supervised directed practice in a physician's office, medical clinic, or allied health facility. This experience will emphasize development of medical front- office skills with consideration for ethical and legal concepts. Assists students in dealing with problems encountered in the work setting. Letter grade only.

MA 217B 3/0/9/0
MEDICAL ASSISTING CLINICAL EXPERIENCE CLINICAL
Prerequisite: Enrollment in Medical-Assistant Program and completion of MA 210, 211B, 212B, 213B, 214B, 218B, HSC 201, 222, and INSR 260
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. Assists students in dealing with problems encountered in the work site. Letter grade only.

MA 217C 3/0/9/0
MEDICAL-ASSISTING CLINICAL EXPERIENCE COMPREHENSIVE
Prerequisite: Enrollment in Medical-Assistant Program and completion of HSC 210, 222, 260; MA 210, 211A, 211B, 212A, 212B, 213A, 213B, 215A, 218B, and INSR 214A, 215A
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. Letter grade only.

MA 218B 2/1/2/0
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 electrocardiograph and its function, and the correct technique for performing an electrocardiogram with student "hands-on" involvement. Letter grade only.

MA 289 .5-4/.5-4/.5-9/.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 1

Medical Lab Technology

PENDING STATE APPROVAL

MLT 210 1/1/0/0
INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION

Introduces the student to the functions and duties of a Medical Laboratory Technician (MLT) and compares and contrasts these duties to the Clinical Laboratory Scientist (CLS). The student will be introduced to clinical laboratory safety issues, regulatory agencies, infection control policies, and professional responsibilities relative to other departments of health care. The student will study medical terminology, patient's bill of rights, and the professional standards of the medical laboratory technician, proper phlebotomy technique, specimen processing, computer skills and data management systems within the clinical laboratory.

PENDING STATE APPROVAL

MLT 211 1/1/0/0
CLINICAL LABORATORY CALCULATIONS

Recommended Preparation: MATH 205 or 253

Includes practical situations encountered in the clinical laboratory to solve metric system conversions, solution preparation and pH determinations, correctly calculating statistical data as related to quality control and quality assurance.

PENDING STATE APPROVAL

MLT 231 3/3/0/0
CLINICAL CHEMISTRY I

Prerequisite: MLT 210 and official admission to the Medical Lab Technician program

Includes general laboratory principles and specific basic instrumentation methodologies used in the clinical lab. Introduces variables of the pre-analytical phase, identifies electrolytes and trace elements and their relationship to acid base balance, important characteristics relevant to kinetics and the clinical assay of enzymes. Also includes a brief review of calculations, quality control and quality assurance. Students will correlate test results with disease states.

PENDING STATE APPROVAL

MLT 232 3/3/0/0
CLINICAL MICROBIOLOGY

Prerequisite: MLT 210 and BIO 15 and official admission to the Medical Laboratory Technician program

Students learn how to identify microorganisms of medical microbiology with emphasis on the characteristics of clinically significant micro-organisms and their biochemical profile, media for isolation, and identification methods for selected pathogens. Introduces identification methods, theories, and techniques used in basic bacteriology parsitology, and mycology. Emphasizes routine identification.

PENDING STATE APPROVAL

MLT 233 3/3/0/0
CLINICAL HEMATOLOGY

Prerequisite: MLT 210 and official admission to the Medical Laboratory Technician (MLT) program

The study of hematologic disorders, normal and abnormal cell development, morphology, symptoms of hematologic disease and related testing.

PENDING STATE APPROVAL

MLT 234 1/1/0/0
CLINICAL COAGULATION

Prerequisite: MLT 210 and official admission to the Medical Laboratory Technician (MLT) program

Presents an overview of the hemostatic process, diseases, and laboratory evaluations. Includes normal values and abnormal results, specimen processing and quality control.

PENDING STATE APPROVAL

MLT 235 1/1/0/0
CLINICAL URINALYSIS

Prerequisite: MLT 210 and official admission to the Medical Laboratory Technician (MLT) program

Includes various properties and constituents of urine. Emphasis is placed on interpretation of theory and methodology of qualitative and quantitative clinical analysis of urine. The student will be able to accurately compare and contrast the methods of analysis to normal function of the kidney, and examine urine physically, chemically, and microscopicaly. Requires comparison of clinical values as related to the physiology of the urinary system in health and disease.

PENDING STATE APPROVAL

MLT 241 3/3/0/0
CLINICAL CHEMISTRY II

Prerequisite: MLT 231

Studies relationships between the endocrine system and analytes assayed in the clinical lab, including tumor markers, therapeutic drugs, and compounds studied in toxicology. The student will be introduced to vitamins assayed and correlate their clinical significance. The student will correlate liver, kidney, and pancreatic function with test results and compare with states of health and disease. The function and laboratory analysis of various body fluids including effusions, spinal fluid, and synovial fluid is included.

PENDING STATE APPROVAL

MLT 242 3/0/10/0
CLINICAL CHEMISTRY PRACTICUM

Prerequisite: MLT 231

Provides entry-level clinical laboratory practice and experience in the department of general and special chemistry. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations.

PENDING STATE APPROVAL

MLT 243 3/3/0/0
CLINICAL IMMUNOLOGY

Prerequisite: MLT 233

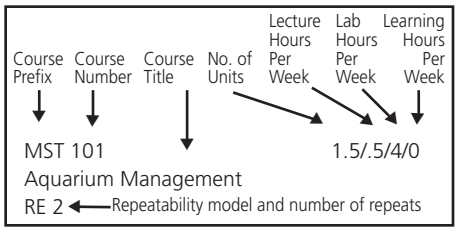
Introduces the basic principles of antigen and antibody reactions and serological procedures. Includes accurate measurement strategies.

PENDING STATE APPROVAL

MLT 244 3/0/10/0
CLINICAL HEMATOLOGY, COAGULATION, AND URINALYSIS PRACTICUM

Prerequisite: MLT 233

Provides entry-level clinical laboratory practice/experience in the department of hematology, coagulation, and urinalysis. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bech/manual methods. Competence will be evaluated based on final clinical evaluations.



PENDING STATE APPROVAL

MLT 252 3/0/10/0
CLINICAL MICROBIOLOGY PRACTICUM
Prerequisite: MLT 232
Provides entry-level clinical laboratory practice and experience in the department of microbiology. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as numerous bench/manual techniques. Competence will be evaluated based on final clinical evaluations.

PENDING STATE APPROVAL

MLT 253 3/0/10/0
CLINICAL IMMUNOLOGY PRACTICUM
Prerequisite: MLT 252
Provides entry-level clinical laboratory practice and experience in the department of immunology and serology. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations.

MLT 289 .5-4/.5-4/.5-9/.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 1

Music

MUS 1 3/3/0/0
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.

MUS 10 3/3/0/0
HARMONY I
Recommended Preparation: MUS 1 or proficiency exam
An intensive study of diatonic harmony in major and minor modes; roman numeral analysis; part-writing using root position triads; harmonization of a given melody; non-harmonic tones; strophic, binary, and ternary forms.

MUS 11 3/3/0/0
HARMONY II
Recommended Preparation: MUS 10
An intensive study of advanced diatonic and chromatic harmony in major and minor modes; secondary chords; modulation; part-writing using triads and 7th chords; variation, rondo, and sonata forms.

MUS 12 3/3/0/0
HARMONY III
Recommended Preparation: MUS 11
A study of chromatic harmony as practiced in the 19th century. Includes 9th, 11th and 13th chords, altered chords, mode mixture, and augmented 6th and Neapolitan chords as well as 19th century formal models.

MUS 14 3/3/0/0
JAZZ COMPOSITION AND ARRANGING
Recommended Preparation: MUS 11
A study of the traditional and popular use of intervals, modes, rhythms, meters, notation of scales, structure notation, and use of traditional and popular chords and progressions. Emphasis will be placed on the traditional and popular concepts of melodic writing for popular and jazz music. R E 3

MUS 15 3/3/0/0
MUSIC COMPOSITION
Recommended Preparation: MUS 1
The emphasis in this course is on original composition. Study of instrumentation and orchestration will also be included, as will analysis of applicable literature. R E 3

MUS 20 3/3/0/0
MUSIC APPRECIATION
A survey of musical forms and important composers and their works from the Middle Ages through the 20th century. Stylistic concepts for each period will be studied and demonstrated. Applies toward the Humanities requirement.

MUS 23 3/3/0/0
INTRODUCTION TO WORLD MUSIC
A survey of the music of the world's peoples, including North, Central, and South American, African, European, Indonesian, and Asian musics and their influence on music of the United States. This course will also cover basic ethno musicological skills.

MUS 24 3/3/0/0
MUSIC OF THE 20TH CENTURY
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.

MUS 25 3/3/0/0
MUSIC HISTORY: TO MOZART
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.

MUS 26 3/3/0/0
MUSIC HISTORY: SINCE MOZART
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.

MUS 27 3/3/0/0
HISTORY OF JAZZ
Explore America's only indigenous art form from Blues to New Age. 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.

MUS 28 3/3/0/0
HISTORY OF ROCK
A study of the elements of rock music tracing the development and evolution of it's styles and structures, including sociological and political aspects, from rock's beginning to the present time.

MUS 29 3/3/0/0
WOMEN, MUSIC, AND SOCIETY
A historical/societal survey of women musicians/composers from the Middle Ages to the present. Explores 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 2/1/3/0
BAROQUE SOCIETY
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. R E 3

MUS 32 2/1/3/0
ORATORIO SOCIETY
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. R E 3

MUS 33 2/1/3/0
MODERN MASTERWORKS: CHORALE
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. R E 3

MUS 34 2/1/3/0
EARLY MUSIC ENSEMBLE
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. Emphasizes a cultivation of skills needed to sing music from a variety styles within the Renaissance and early Baroque era. R E 3

MUS 35 2/1/3/0
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. R E 3

MUS 40 2/1/3/0
WIND ENSEMBLE
Recommended Preparation: Previous experience in an instrumental group
Emphasizes rehearsal and performance of standard band literature. Public performances are required for course credit. Performances include athletic games, assemblies, and concerts. This course is offered as open-entry/open-exit. R E 3

MUS 41 2/1/3/0
SYMPHONIC WIND ENSEMBLE
Recommended Preparation: Previous instrumental training and demonstrated proficiency
An elite concert band, playing the finest traditional and contemporary band literature available. Emphasis is on a high degree of individual musicianship and fine ensemble playing. Formal concert to be given with outstanding guest soloist and/or conductors. This course is offered as open-entry/open-exit. R E 3

MUS 42 2/1/3/0
SYMPHONIC ORCHESTRA
Recommended Preparation: Previous experience in an instrumental group
Studies and performance of standard orchestral literature. Public performance required for credit. This course is offered as open-entry/open-exit. R E 3

MUS 43 2/1/3/0
STRING ORCHESTRA
Recommended Preparation: Previous experience in performing groups
Designed to read, study, and perform orchestral literature written especially for strings. Offered as open-entry/open-exit. R E 3

MUS 44 2/1/3/0
COMMUNITY BAND
Emphasizes rehearsal and performance of standard band literature. Public performances are required for course credit. Performances include those both on and off campus. Offered as open-entry/open-exit. R E 3

MUS 54 2/2/1/0
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

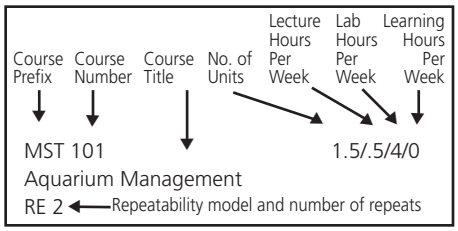
MUS 55 2/2/1/0
INTERMEDIATE PIANO
Recommended Preparation: MUS 54
Instruction in major and minor scales, piano technique, tone production, sight-reading, building of repertoire and performance styles. Includes technical and interpretive development of piano performance ability at a second-year level. 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 3/2/2/0
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 3/2/2/0
PIANO REPERTOIRE AND PERFORMANCE PROCEDURES
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 60 1.5/1/1/0
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 1.5/1/1/0
INTERMEDIATE CLASSICAL GUITAR
Recommended Preparation: MUS 60
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 46 1/1/2/0
JAZZ IMPROVISATION
Recommended Preparation: MUS 10 or placement audition
Study of jazz theory, transcription, awareness of historically important jazz improvisors, and internationalization of jazz rhythm. Develop technical command of instrument. Foster the ability to create. R E 3

MUS 47 2/1/3/0
SADDLEBACK COLLEGE BIG BAND
Limitation: Enrollment by audition only
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. 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 band will perform several times during the term at events both on and off campus. Offered as open-entry/open-exit. R E 3

MUS 50 2.5/2/5/0
APPLIED MUSIC: INSTRUMENTAL
Limitation: College audition and concurrent enrollment in ensemble course: MUS 31,32,33,34,35,40,41, 42,43,47,62,63,64 or 65
Individual instruction in an instrument other than piano. Designed to develop technical competence, stylistic interpretation, and performance practice. R E 3

MUS 51 2.5/2/5/0
APPLIED MUSIC: KEYBOARD
Limitation: College audition and concurrent enrollment in ensemble course: MUS 31,32,33,34,35,40,41, 42,43,47,62,63,64 or 65
Individual instruction in piano. Designed to develop technical competence, stylistic interpretation, and performance practice. R E 3

MUS 52 2.5/2/5/0
APPLIED MUSIC: VOICE
Limitation: College audition and concurrent enrollment in ensemble course: MUS 31,32,33,34,35,40,41, 42,43,47,62,63,64 or 65
Individual instruction in voice. Designed to develop technical competence, stylistic interpretation, and performance practice. R E 3

MUS 62 2/2/2/0
ADVANCED CLASSICAL GUITAR
Recommended Preparation: MUS 61
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 2/1/3/0
ENSEMBLE TECHNIQUES FOR 21ST CENTURY
Designed to aid the individual in developing the ability to perform in small instrumental ensemble groups, studying the music of late 20th and early 21st centuries. Pianists, string, woodwind, and guitar players will study standard repertoire as well as newer compositions, including jazz. R E 3

MUS 64 2/1/2/0
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 65 1/1/2/0
PIANO ACCOMPANYING
Recommended Preparation: MUS 55 or demonstrated keyboard proficiency
Ensemble experience in the performance of duo-piano literature, four and eight hands, both original and transcribed. Particular emphasis will be given to style, interpretation and techniques of ensemble playing and sight- reading. R E 3

MUS 66 1/1/2/0
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 2/1/2/0
WOODWIND ENSEMBLE
Designed to aid the individual in developing the 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 choirs will be studied and performed at clubs, recitals, schools, and churches. Open to woodwind instruments and advanced pianists. R E 3

MUS 75 2/1/3/0
STRING LITERATURE
Recommended Preparation: Two years of instrumental training
Designed to analyze and perform traditional and contemporary string literature from 18th century to present day. R E 3

MUS 80 2/1/2/0
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 2/1/2/0
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 2/1/2/0
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 92 2/1/2/0
MUSICIANSHIP I
Recommended Preparation: MUS 1
Sight-reading, ear training, and dictation of diatonic melodies and harmonies; rhythmic reading and dictation; keyboard harmony.

MUS 93 2/1/2/0
MUSICIANSHIP II
Recommended Preparation: MUS 92
Sight-reading, ear training, and dictation of advanced diatonic melodies and harmonies; rhythmic reading and dictation; keyboard harmony. Required of all music majors.

MUS 117 3/3/0/0
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, styles, melody and harmony. As a course project, the students will produce a demo recording of their songs. R E 3

MUS 118 4/3/3/0
DIGITAL MULTI-TRACK MUSIC RECORDING
Initial exposure to sound-recording principles, techniques, and equipment. Emphasizes multi-track music recording process, basic tracks, overdubbing, and mixdown. Students will receive hands-on experience with professional 24 track digital recording equipment while the class participates in a variety of recording projects. Also listed as CA 118. Credit given in either area, not both.

MUS 148 2/2/2/0
JAZZ ENSEMBLE
Studies historically important and current large ensemble jazz music. Provides practical experience in organizing a variety of instrumental combinations. Practice in standard jazz ensemble phrasing and improvisation. The jazz ensemble will perform at different functions and may perform with nationally-known guest artists. Offered as open-entry/open-exit. R E 3

MUS 178 3/3/0/0
BEGINNING PIANO PEDAGOGY
Recommended Preparation: Two years of piano study
Designed to study the art of piano teaching. Traces the history of piano method books and demonstrates the most effective teaching methods used today. Students will be given an opportunity to directly teach a beginning level piano student with guidance from the instructor. This course is offered for music majors as well as community teachers who wish to improve and refine their teaching style. Any combination of MUS 178 and 179 may be taken a maximum of four times. R A 3

MUS 179 3/3/0/0
INTERMEDIATE PIANO PEDAGOGY
Recommended Preparation: Two years of previous piano study or MUS 178
Designed to study the art of piano teaching. Demonstrates the most effective teaching methods used today and emphasizes the technical and interpretive styles of the four major music periods. Students will be given an opportunity to directly teach a beginning level student with guidance from the instructor. This course is offered for music majors as well as community teachers who wish to improve and refine their teaching style. A combination of MUS 178 and 179 may be taken a maximum of four times. R A 3

MUS 189 .5-4/.5-4/.5-9/.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 1

MUS 232 2/1/3/0
CHORAL TECHNIQUES
Limitation: Audition with college staff
The study of choral techniques for the intermediate and advanced singer as applied to choral repertoire. Includes historical and social factors influencing ensemble singing, orchestral structure, vocal interpretation, phrasing, and specific vocal techniques used in chorale performance. R E 3

MUS 252 2/1/2/0
JAZZ PIANO
Recommended Preparation: MUS 55 or demonstrated keyboard proficiency
Exploration and study of basic harmonies at the keyboard as applied to popular music and jazz. Study of improvisational techniques. Designed for intermediate and advanced piano students. R E 3

MUS 260 1/1/2/0
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. Prepares students for further study in classical and/or jazz guitar. R E 3

MUS 289 .5-4/.5-4/.5-9/.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 1

MUS 295 1/0/3/0
REHEARSAL AND PERFORMANCE (INSTRUMENTAL)
Recommended Preparation: Previous instrumental training and demonstrated proficiency
Emphasizes the preparation of productions for public performance throughout the semester. Offered as open-entry/open-exit. R E 3

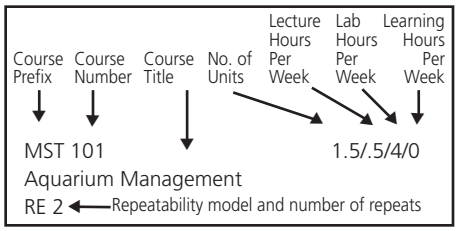
MUS 297 1/0/3/0
REHEARSAL AND PERFORMANCE (JAZZ STUDIES)
Recommended Preparation: Previous instrumental training and demonstrated proficiency. Emphasizes the preparation and production of jazz combos in public performance. R E 3

Nursing

N 160 2.5/2.5/0/0
PHARMACOLOGY FOR NURSING
Prerequisite: BIO 12
Recommended Preparation: BIO 11
Provides a methodical approach for administering drugs and monitoring the patient's response to drug therapy. Content includes general principles of pharmacology, as well as legal, ethical, and safety aspects of medication administration. Focuses on the interaction between core drug knowledge (pharmacodynamics, pharmacokinetics, contradictions or precautions, adverse effects and drug interactions) and core patient variables (health status, lifespan and gender, diet, lifestyle and habits, environment, inherited traits, and US cultural groups). Emphasizes nursing responsibilities maximizing therapeutic effects, and minimizing adverse effects. Provides the foundation of basic pharmacology required for a nurse.

N 161 1.5/1.5/0/0
LIFECYCLE 2: GROWTH AND DEVELOPMENT
The second course in life span growth and development which examines developmental tasks and needs from prenatal and birth through middle age, including environmental and family factors that influence growth and development. Major developmental theories are addressed at each level of growth and development. Physiologic concepts, self concept, social behaviors and concepts of diversity and culture for individuals and families from diverse cultural groups within the United States are integrated.

N 162 `1.5/1/1.5/0
SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING
Prerequisite: N 170 or current LVN license and completion of BIO 11,12,15 and ENG 1A
Limitation: LVN with 1 year experience or transfer/int'l RN student. Complete within 3 semesters of entry into nursing program.
Addresses strategies for successful completion of the nursing program. Provides theory base and practice with study skills and test taking, critical thinking, use of information technology, the role of the registered nurse, nursing process, and effective and therapeutic communication. Includes practice of nursing skills in a simulated clinical learning environment in preparation for competency testing. Includes practice and competency testing in injections, urinary catheterization, physical assessment, intravenous medication administration, medication math competency, and application of nursing process. R E 1



N 170 7.75/3.25/13.5/0
NURSING PROCESS
Prerequisite: BIO 11,12,15, with a grade of "C" or better, completion of ENG 1A, and official admission to the nursing program
Recommended Preparation: Completion of or concurrent enrollment in N 160 and GERO 101 with a "C" or better
Provides the theoretical base need for application of the nursing process at a beginning level. Focus is on the care of the adult medical-surgical client care consumer with less complicated disorders, in a variety of health care settings. Concepts and rationales related to fundamental nursing practice are stressed. Principles of safety, physical and psychosocial assessment, effective and therapeutic communication, pharmacology, nutrition, the business of health care, community health, issues of diversity among US cultural groups, growth and development, geriatric nursing, disease process, disease prevention, restorative care, and end-of-life care are integrated.

N 171 3/2/3/0
MENTAL HEALTH NURSING
Prerequisite: N 170
Recommended Preparation: PSYC 1
Provides the theoretical base for applying the nursing process and biopsychosocial concepts to the care of individuals who have ineffective behaviors in pyschosocial functioning. Emphasis is on communication and the principles of psychiatric/mental health nursing, including psychopathology. Principles of nutrition, psychopharmacology, health education, health promotion, illness prevention, community health, human development, advocacy and concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated.

N 172 8.75/3.5/15.75/0
MEDICAL-SURGICAL NURSING
Prerequisite: N 160, 170, and GERO 101 with grades of "C" or better
Recommended Preparation: HSC 228
Provides the theoretical basis for the application of nursing process to the adult medical surgical client who requires moderately complex nursing care in acute care facilities and community settings. Emphasis is on pathophysiology biopsychosocial needs in the following areas: oxygenation, fluid and electrolytes, activity and rest, neurological function, endocrine function, gastrointestinal function, and protective function. Principles of nutrition, medication administration, communication, health education, health promotion, illness prevention, human development, advocacy, and concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated.

N 173 3.5/1.5/6/0
NURSING CARE OF CHILDREN AND FAMILIES
Prerequisite: N 161 and 172 with a grade of "C" or better
Limitation: Official admission to the nursing program
Recommended Preparation: HSC 228 and N 245
Theory basis for integration and application of the nursing process in providing nursing care for neonates, infants, children and adolescents and their families/significant others. Emphasis is on family centered approach to nursing care, communication, health education, health education, health promotion, illness prevention, and adaptation. Principles of nutrition, medication/fluid administration, physiology, growth and development, comforting/pain management, advocacy, and concepts of diversity/culturally competent care for US cultural and ethnic groups are integrated. Letter grade only

N 174 3.5/1.5/6/0
WOMEN'S HEALTH NURSING
Prerequisite: N 173 with grade of "C" or better
Theory basis for application of the nursing process in providing nursing care for women, infants, family, and 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 patient, the neonate, and the family/significant others. Principles of nutrition, medication/fluid administration, physiology, growth and development, advocacy, and concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated. Letter grade only.

N 176 8/3/15/0
ADVANCED NURSING
Prerequisite: N 174 with a grade of "C" or better
Provides the theoretical basis for integration of the nursing process to care for acutely and critically ill adults. Emphasizes pathophysiology and the biopsychosocial needs for acutely ill adults with: cardiovascular, respiratory renal, neurological, gastrointestinal, endocrine and complex multisystem dysfunction. Principles of leadership and management, professional development, scope of practice, legal and ethical issues, principles of nutrition, the role of the nurse in the community and transition to the role of a registered nurse are integrated throughout the course. Concepts of diversity and culturally competent care for cultural groups in the United States are presented. Letter grade only.

N 189 .5-4/.5-4/.5-9/.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 1

N 202 1/1/0/0
SUCCESS STRATEGIES IN NURSING
Limitation: Official admission to the nursing program
Develops strategies to be a successful student in the nursing program. Assesses personal aptitudes, learning and communication styles as barriers to successful completion of the nursing program. Focuses on developing a purposeful analytic process that results in reasoned decisions and judgments as a registered nurse. R E 1

N 204 2/2/0/0
BEGINNING NURSING CONCEPTS
Recommended Preparation: BIO 11, 12, or 15
Introduces the health science student to the theoretical basis of the nursing and emphasizes healthcare in order to provide a successful transition to the student nurse role. Emphasizes the nursing role, expectations of the student nurse, nursing process, conceptual framework, history, dimensional analysis, medical terminology, communication, nutrition, cultural awareness and nursing informatics. R E 3

N 238 10/5/31/0
PERIOPERATIVE NURSING I
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.

N 244 1.75/1.5/.5/0
I.V. THERAPY TECHNIQUES FOR LICENSED VOCATIONAL NURSES
Limitation: Current California LVN/RN License, CPR card, malpractice insurance, and TB test results
Prepares students for initiating and/or maintaining common intravenous therapies. 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, Provides state certification for LVNs. R E 3

N 245 1.5/1.5/0/0
I.V. THERAPY TECHNIQUES FOR NURSES
Recommended Preparation: N 170
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. R E 3

N 263 .25/0/.75/0
SKILLS LAB--BASIC
Includes demonstration and practice of basic manual skills and procedures necessary for the student at the fundamental level. Offered as open-entry/open-exit as credit/no credit. R E 3

N 264 .25/0/.75/0
SKILLS LAB--SPECIALTIES
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

N 265 .25/0/.75/0
SKILLS LAB--ADVANCED
Recommended Preparation: N 173 and 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 credit/no credit only. R E 3

N 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Paramedic

PM 220 14/14/0/0
PARAMEDIC THEORY
Prerequisite: High school graduation or GED, current EMT-B certification background check, CPR certification, and official admission to the paramedic program
Limitation: Physical examination required
Corequisite: PM 230
Recommended Preparation: EMT 219, HSC 217, 226
Contains the didactic material necessary to establish a foundation to practice as a paramedic. Includes applied anatomy and physiology, pathophysiology, intravenous therapy, basic and advanced life support, patient assessment, management of trauma, medical conditions emergency medical system operations and special considerations when caring for patients throughout the life span and those with special challenges. R 99

PM 230 7.5/0/23/0
PARAMEDIC CLINICAL EXPERIENCE
Prerequisite: High school graduate or GED, current EMT-B certification, CPR, background check and official admission to the paramedic program
Limitation: Physical examination required
Corequisite: PM 220
Includes the skills assessment and hospital clinical requirements for students enrolled in the paramedic program. R 99

PM 240 12/0/36/0
PARAMEDIC FIELD INTERNSHIP
Prerequisite: PM 220 and 230
Under the direct supervision and evaluation of a licensed paramedic, students will complete a field internship experience on a designated advanced life support unit. This provides students with prehospital patient care experience and is the last course in the series preparing the student for licensure as a paramedic. R 99

PM 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Persian

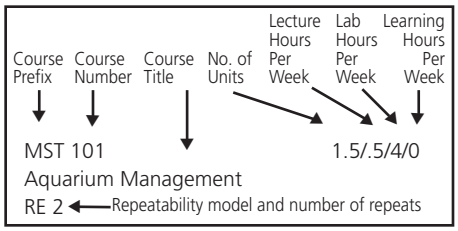
PRSN 1 5/5/0/0
ELEMENTARY PERSIAN
Corequisite: PRSN 999A
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in daily spoken modern Persian (Farsi). Emphasizes listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years of high school Persian (Farsi).

PRSN 2 5/5/0/0
ELEMENTARY PERSIAN
Prerequisite: PRSN 1 or two years of high school Persian/Farsi
Corequisite: PRSN 999A
Designed to further the fundamentals of communicative competence in daily spoken modern Persian (Farsi). Focuses 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.

PRSN 3 5/5/0/0
INTERMEDIATE PERSIAN
Prerequisite: PRSN 2 or three years of high school Persian
Corequisite: PRSN 999B
Reviews the fundamentals with further study of the Persian language, culture, and customs. Intermediate level course focuses on fluency in reading, writing, speaking and listening.

PRSN 4 5/5/0/0
INTERMEDIATE PERSIAN
Prerequisite: PRSN 3 or four years of high school Persian
Corequisite: PRSN 999B
Emphasizes fluency in speaking, reading, writing, and comprehension of Persian. Includes selected readings and discussions from the basic four genres in Persian and Persian-American literature, culture, and customs.

PRSN 221 3/3/0/0
INTRODUCTION TO PERSIAN CULTURE
Recommended Preparation: College-level reading ability
Designed to provide a brief overview in English of the Persian culture. Areas of study include history, music, literature, philosophy, political ideas, customs and Iran's influence on and contribution to the civilization of America and the world. No prior study of the Persian language or culture is required.



PRSN 999A .25/0/0/1
PERSIAN LANGUAGE LAB
Corequisite: PRSN 1, 2
Requires concurrent enrollment in designated Elementary Persian courses. Enhances and provides practice in skills learned in Elementary Persian courses. R E 3

PRSN 999B .25/0/0/1
PERSIAN LANGUAGE LAB
Corequisite: PRSN 3, 4
Requires concurrent enrollment in designated Intermediate Persian courses. Enhances and provides practice in skills learned in Intermediate Persian courses. R E 3

Philosophy

PHIL 1 3/3/0/0
INTRODUCTION TO PHILOSOPHY
Recommended Preparation: Eligible for ENG 1A
Investigates many of the major philosophical themes within the Western tradition. Among these themes will be the nature of the self, free will and determinism, the ground and nature of human knowledge, the nature of human values, ethical theory, aesthetic value, and the nature of society in relation to the individual. Other topics include the nature and methods of the sciences, philosophical psychology and the theory of language.

PHIL 10 3/3/0/0
WORLD RELIGIONS
Recommended Preparation: Eligibility for ENG 1A
A comparative study of some of the major religions of the world including the Buddhist, Confucianist, Hindu, Islamic, Judeo-Christian, Shinto and Taoist traditions. These religions will be explored from a historical standpoint; in addition, the philosophical presuppositions of each view will be discussed. Topics include the nature of human beings, the world, transcendent beings, transcendental experiences, ethics, religious rituals and rites of passage.

PHIL 12 3/3/0/0
INTRODUCTION TO LOGIC
Recommended Preparation: Proficiency in English; ENG 1A
An examination and analysis of reasoning employed in everyday arguments. A variety of writing will be discussed varying in complexity from newspaper articles to more technical writings. Arguments will be formulated in class and evaluated for logical structure. Topics treated will include the concept of an argument, the inductive-deductive distinction, formal fallacies, definitions, and accurate use of language.

PHIL 15 3/3/0/0
INTRODUCTION TO ETHICS
Recommended Preparation: Eligibility for ENG 1A
Acquaints the student with the major concepts and methods of ethical theory within the Western tradition. Topics will include the nature of evaluation, appraisals of the "good life," the source and justification of obligations to others, the possible relativity of ethical codes as they vary from culture to culture, and the connection between individual desires and social restraint. Application of these topics to issues of contemporary importance, such as the moral implications of abortion, sexual freedom of expression, changing social roles, the role of religious belief in moral theory, and the social sources of ethical perspectives.

Phlebotomy

PHLB 240 4/4/0/0
PHLEBOTOMY
Limitation: Current malpractice insurance, TB test results, CPR card, background check required
Corequisite: CWE 180
Recommended Preparation: HSC 201
A California state approved full training program in phlebotomy. Provides students with a comprehensive knowledge of venipuncture, skin puncture, specimen collection and handling, standard precautions, laboratory safety, and basic medical terminology. Concepts of diversity and culturally competent care for individuals from culture groups within the United States are integrated. Certificate awarded upon completion of course with grade of "C" or better. Letter grade only).

PHLB 241 2.5/2.5/0/0
PHLEBOTOMY CERTIFICATION PREPARATION
Provides basic and advanced didactic content required for California state certification for phlebotomists working in the field. Includes anatomy, physiology, infection control, specimen identification, collection equipment, patient preparation, specimen processing, quality, legal issues and interpersonal relations. Concepts of diversity and culturally competent care for individuals from culture groups within the United States are integrated. Letter grade only. R E 3

Photography

PHOT 25 3/3/0/0
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 3/2/2/0
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 3/2/3/0
INTRODUCTION TO PHOTOSHOP AND DIGITAL IMAGING
Recommended Preparation: PHOT 50 and basic operational knowledge of a 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 3/2/2/0
INTERMEDIATE PHOTOGRAPHY
Recommended Preparation: PHOT 50
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 3/2/3/0
INTERMEDIATE PHOTOSHOP AND DIGITAL IMAGING
Recommended Preparation: PHOT 50, 51
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 3/2/2/0
ADVANCED PHOTOGRAPHY
Recommended Preparation: PHOT 55
Emphasis on creating visual imagery through advanced photographic techniques and processes. Includes basic studio lighting and infrared film. A combination of PHOT 50, 55, or 156 may be taken a maximum of four times. R A 3

PHOT 160 3/2/3/0
COLOR DIGITAL PHOTOGRAPHY
Recommended Preparation: PHOT 201
An intermediate-level course in color digital photography. Covers color photographic theory and practice. Production of digital images from film and digital cameras performed on computers using Adobe Photoshop to process corrections and prepare for printing incorporating current digital workflow patterns. Photographic images are printed on high-end inkjet printers. R E 3

PHOT 189 .5-4/.5-4/.5-9/.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 1

PHOT 190 3/2/2/0
SPECIAL PROBLEMS IN PHOTOGRAPHY
Continued exploration of advanced photographic concepts and their development through various processes. Includes vintage and contemporary techniques. R E 3

PHOT 200 3/2/3/0
PORTRAITURE PHOTOGRAPHY
Recommended Preparation: PHOT 50, 55
An exploration of various styles and techniques used in contemporary portraiture. Essential basics of lighting (natural and artificial), composition, and direction will be covered. R E 3

PHOT 201 1.5/1.5/0/0
INTRODUCTION TO DIGITAL PHOTOGRAPHY
An introductory-level course in digital photography. Covers basic camera control, functions, and settings. Also includes digital darkroom techniques, storage, archiving and printing. Composition, light and portraiture are explored. Digital camera required, no lab. R E 3

PHOT 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Physical Education

see Kinesiology

Physics

PHYS 2A 5/4/3/0
INTRODUCTION TO PHYSICS
Prerequisite: MATH 124
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 trigonometry. 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.

PHYS 2B 5/4/3/0
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, electric 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 5/4/3/0
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 5/4/3/0
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 5/4/3/0
GENERAL PHYSICS
Prerequisite: PHYS 4A
A calculus-based introduction to modern physics, including thermodynamics and Special Relativity. Kinetic theory, thermodynamics, wave interference, optics, and Special Relativity, wave nature of matter, quantum theory and the hydrogen atom, atomic physics, nuclear physics, astrophysics and particle physics.

PHYS 20 4/3/3/0
THE IDEAS AND EVENTS OF PHYSICS
Intended for students not majoring in science. Focuses on major discoveries, ideas and methods in physics. Included are simple motions, the nature of matter and energy, electric and magnetic effects, and 20th-century ideas in relativity, and atomic and nuclear science. Emphasis is on understanding concepts rather than mathematical aspects. This course is also suggested for students having no previous physics training as preparation for more advanced physics courses.

PHYS 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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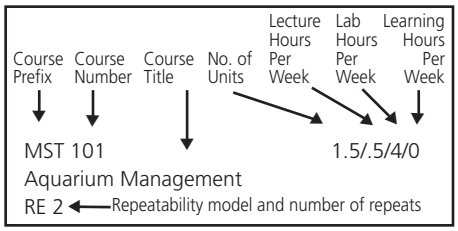

Political Science

PS 1 3/3/0/0
AMERICAN GOVERNMENT
Survey of principles, personalities, problems, and issues of government. Emphasizes developing trends of government, including local, state, and federal branches.

PS 4 3/3/0/0
INTRODUCTION TO POLITICAL SCIENCE
Introduces the study of politics. Designed to familiarize the student with the basic systems, ideologies, and models of political analysis.

PS 10 3/3/0/0
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 evolved over time. Ideal for Honors Program students and Political Science majors.

PS 11 3/3/0/0
INTERNATIONAL POLITICAL ECONOMY
Focuses on the relations between the political and economic systems within the global economy. 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, Russia, China, and the United States. Also listed as ECON 11. Credit given in either area, not both.

PS 12 3/3/0/0
COMPARATIVE POLITICS AND GOVERNMENT
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 3/3/0/0
INTERNATIONAL RELATIONS
An examination of contemporary world trends with emphasis on conflict and problem areas.

PS 61 3/3/0/0
HISTORY AND POLITICS OF RUSSIA: SOVIET PERIOD TO THE PRESENT
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 collapse of the Soviet Union and the new status of former Soviet Republics. Also listed as HIST 61. Credit given in either area, not both.

PS 75 3/3/0/0
INTRODUCTION TO THE | CONTEMPORARY MIDDLE EAST
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 given in either area, not both.

PS 80 3/3/0/0
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 HIST 80. Credit given in either area, not both.

PS 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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PS 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Psychology

PSYC 1 3/3/0/0
INTRODUCTION TO PSYCHOLOGY
An introduction to historical and contemporary psychological research and thought. Topics will include biological psychology, perception, consciousness, memory, language, problem solving, intelligence, emotions, personality, psychotherapy, social interactions, and development. Emphasis will be placed on the science of psychology and the ways psychological science has impacted our understanding of human nature and behavior.

PSYC 2 3/2/3/0
RESEARCH METHODS IN PSYCHOLOGY
Prerequisite: PSYC 1
Introduction to basic research methods in psychology and the use of the scientific method to answer questions about behavior. Theoretical and applied research methods will be covered, with emphasis on critical analysis of experimental research design and data interpretation.

PSYC 3 3/4/0/0
BIOLOGICAL PSYCHOLOGY
Prerequisite: PSYC 1
Introduction to the study of behavior from a biological perspective. Neuroanatomy, neurophysiology, psychopharmacology, and the biological systems and processes underlying behavior. Emphasis will be placed on brain mechanisms underlying behavior and their relation to issues in psychology.

PSYC 4 3/3/0/0
INTRODUCTION TO COGNITIVE PSYCHOLOGY
An introduction to the basic concepts and experimental study of cognitive psychology. Includes topics related to higher mental procedures such as pattern recognition, perception, memory, thinking, problem solving, and comprehension of language. R E 3

PSYC 5 3/3/0/0
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY
Recommended Preparation: PSYC 1
Examines the fundamentals of the development and practice of sexuality in the human being and the historical, psychological, and psychosocial aspects of human sexuality from childhood to old age, including human sexual anatomy, fulfillment differences among the sexes, sexual dysfunction and corrective therapy.

PSYC 7 3/3/0/0
DEVELOPMENTAL PSYCHOLOGY: CHILD GROWTH AND DEVELOPMENT
Recommended Preparation: ENG 200, ENG 340
A study of the developmental stages of children from conception through adolescence focusing on children's social, emotional, cognitive, and physical development within cultural and family contexts. Includes observation of children in various settings. Also listed as CDES 7. Credit given in either area not both.

PSYC 16 3/3/0/0
INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY
Recommended Preparation: PSYC 1
An introduction to the field of cross-cultural psychology. Focuses on the social and psychological impact of race, ethnicity, culture, gender, and disability. Special emphasis is given to research on African American, Latina/o, Asian American, Native American, Middle Eastern American, and Jewish cultures among other minority groups in America. Topics include stereotyping, institutional racism and discrimination, "reverse discrimination", ageism, and sexism.

PSYC 21 3/3/0/0
THE PSYCHOLOGY OF WOMEN
Introduction to the psychology of women. Topics include gender similarities and differences and gender roles, including their psychological, biological, and social origins. Also covered are contemporary social issues. Throughout the course there will be emphasis on how psychology has studied women and the ways scientific and cultural assumptions about the sexes are reflected in psychological research.

PSYC 30 3/3/0/0
SOCIAL PSYCHOLOGY
Recommended Preparation: PSYC 1 or SOC 1
Introduction to phenomena related to social behavior and social influences on behavior. Topics include social perception and cognition, personality, attitudes and attitude change, attraction, altruism, aggression, interpersonal influence, social norms and group processes. Also listed as SOC 30. Credit given in either area, not both.

PSYC 33 3/3/0/0
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.

PSYC 37 3/3/0/0
ABNORMAL BEHAVIOR
Prerequisite: PSYC 1
An introduction to the symptoms, causes, treatment and prevention of psychological disorders including anxiety disorders, personality disorders, psychophysiological disorders, psychoses, substance use disorders, sexual disorders, eating disorders and organic disorders.

PSYC 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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PSYC 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Real Estate

RE 122 3/3/0/0
REAL ESTATE OFFICE MANAGEMENT
Recommended Preparation: RE 170 or a Real Estate Salesperson License
Assists students who are considering opening, managing, or becoming the broker of a real estate entity in learning all aspects of the operation of a real estate office, franchise or nationwide company. Covers planning, organizing, staffing, directing and controlling the day-to-day operation of a real estate office. Includes concepts for dealing with a changing business climate, how to analyze the marketplace, how to develop a business plan, and strategies for implementing that business plan. Applies toward state's elective educational requirements for the Real Estate Salesperson License. Applies toward state's core educational requirements for broker's examination.

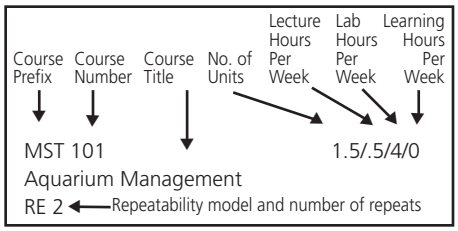
RE 170 3/3/0/0
REAL ESTATE PRINCIPLES
The fundamental real estate course covering the basic laws and principles of California real estate. Provides the background and terminology necessary for advanced study in specialized courses. Required for those preparing for the state Real Estate Salesperson License examination. Applies toward state's elective educational requirements for the broker's examination, Department of Real Estate (DRE) basic education.

RE 172 3/3/0/0
REAL ESTATE PRACTICE
Recommended Preparation: RE 170
Day-to-day operations in real estate sales and brokerage, including listing, prospecting, advertising, financing, sales techniques, and escrow. Applies toward state's educational requirements for the Real Estate Salesperson License. Applies toward the state's core educational requirements for the broker's examination. examination. Applies toward Department of Real Estate (DRE) basic education.

RE 174 3/3/0/0
LEGAL ASPECTS OF REAL ESTATE
Recommended Preparation: RE 170
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. Applies toward State's elective educational requirements for 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.

RE 175 3/3/0/0
REAL ESTATE FINANCE
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 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.

RE 176A 3/3/0/0
REAL ESTATE APPRAISAL I
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 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.



RE 176B 3/3/0/0
REAL ESTATE APPRAISAL II
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 178 3/3/0/0
REAL ESTATE ECONOMICS
Recommended Preparation: RE 170
Covers the impact of national, regional, and local trends on real estate values. Includes the role of the government in our economy and how that role affects real estate issues, real estate cycles and business fluctuations, factors which affect credit markets, real property taxation concepts, land use controls, factors which affect the development of real property, and limitations imposed on real estate markets. Applies toward state's elective educational requirements for the Real Estate Salesperson License. Applies toward state's core educational requirements for the broker's examination.

RE 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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RE 190 3/3/0/0
ESCROW
Provides students with a real-life application of the steps in a real estate sale including completing and reviewing the California Association of Realtors (C.A.R.) Joint Purchase Agreement and Escrow Instructions, reviewing the Preliminary Report and solving title problems, learning lenders' closing requirements and the recording process, and balancing and figuring the settlement of the closing funds. Applies toward the State's elective educational requirements for the Real Estate Salesperson license and toward the requirements for the broker's examination. Letter grade of "C" or above applies toward the requirements of California Escrow Association professional designation.

RE 195 3/3/0/0
PROPERTY MANAGEMENT
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 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.

RE 200 1.5/1.5/0/0
UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP)
An introductory course covering real estate appraisal professional practice and ethics. Covers the history of professionalism and appraising, the Appraisal Foundation, and the Uniform Standards of Professional Appraisal Practice. R E 3

RE 202 3/3/0/0
COMPUTER APPLICATIONS IN REAL ESTATE
Recommended Preparation: RE 172
Provides real estate assistants, real estate agents or soon-to-be agents, and other real estate professionals with the information needed to use the technologies currently employed in the real estate industry. Covers web sites, email, PDAs, MLS, digital cameras, and virtual tours.

RE 222 3/3/0/0
REAL ESTATE CALCULATIONS
Recommended Preparation: RE 170
Comprehensive course in analyzing and solving real estate problems that require mathematical calculations. Important preparation for real estate license examination, appraisal, lending, or title fields. Topics include price and profit, appreciation and depreciation, taxes, property area, interest and other financial calculations, property values. R E 3

RE 250 3/3/0/0
REAL ESTATE LICENSE PREPARATION
Recommended Preparation: RE 170
Real estate licensure preparation. Fundamental information regarding practice of real estate with emphasis on real estate law, principles, practice, and other topics covered in the state licensure examination. Important preparation for those intending to take the real estate salesperson's and broker's license examination. R E 3

RE 280 3/3/0/0
MORTGAGE LOAN BROKERING AND LENDING
Introduces the principles and operations of the mortgage loan brokering field. The emphasis is on the lending rules for residential property. Students learn lending laws of Regulation Z, usury laws, disclosures, maximum fees and charges, agency relationships, advertising laws, HUD/RESPA calculations, and the loan process. Satisfies the elective requirements for the California Real Estate Salesperson's and Real Estate Broker's licenses. R E 3

RE 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Recreation

REC 100 3/3/0/0
INTRODUCTION TO RECREATION
Nature, scope, and significance of leisure and recreation in today's society. Emphasizes the role of the professional leader in organizing community and other programs of recreation.

REC 102 3/3/0/0
RECREATION PLANNING AND LEADERSHIP
A study of the essential elements and basic principles involved in the organization, supervision, promotion, and evaluation of various types of recreation programs.

REC 104 3/3/0/0
CAMPING AND OUTDOOR EDUCATION
Focuses on skills needed in various camping venues such as navigation, survival, building fires, flora and fauna identification. Knowledge of all types of equipment, camp activities and interaction with the environment. Students provide camping and hiking gear, and necessary supplies for sustenance.

REC 105 1/1/0/0
SUPERVISED RECREATION FIELD WORK
Supervised experiences in public and private agencies that are concerned with leisure activities. R E 1

REC 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Sign Language

SL 1 4/4/0/0
AMERICAN SIGN LANGUAGE I
Recommended Preparation: Eligibility for ENG 1A
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.

SL 2 4/4/0/0
AMERICAN SIGN LANGUAGE II
Prerequisite: SL 1 with a grade of "C" or better
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.

SL 3 4/4/0/0
AMERICAN SIGN LANGUAGE III
Prerequisite: SL 2 with a grade of "C" or better
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.

SL 4 4/4/0/0
AMERICAN SIGN LANGUAGE IV
Prerequisite: SL 3 with a grade of "C" or better
Emphasizing advanced expressive/conversational 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.

SL 101 3/3/0/0
DEAF CULTURE AND ITS HISTORY
Designed for those interested in sociology of deafness as it relates to the culture of people in the community. Emphasizes the history and evolution of education of the hearing-impaired.

SL 103 3/3/0/0
SIGN LANGUAGE INTERPRETING I
Prerequisite: SL 4 with a grade of "C" or better
Corequisite: SL 104
Recommended Preparation: Eligibility for ENG 1A
A continued review and refinement of advanced language principles. Explore the history and development of the field of interpreting. Application of critical thinking skills, self analysis and professional ethics to the role of the interpreter. Includes working in multi-cultural settings; with people with multiple disabilities, in both formal and informal settings. Letter grade only.

SL 104 1/0/2/0
SIGN LANGUAGE INTERPRETING I LAB
Prerequisite: SL 4 with a grade of "C" or better
Corequisite: SL 103
Provides beginning practice and review for interpreting for the deaf in a variety of settings. Emphasis will be placed on advanced ASL grammar, structure and vocabulary. Letter grade only. R E 3

SL 105 3/3/0/0
SIGN LANGUAGE INTERPRETING II
Prerequisite: SL 103 with a grade of "C" or better
Corequisite: SL106
Provides students with advanced interpreting skills placing greatest emphasis on interpreting in various settings. Prepares the student for entry-level employment as a sign language interpreter. Letter grade only.

SL 106 1/0/2/0
SIGN LANGUAGE INTERPRETING II LAB
Prerequisite: SL 104 with a grade of "C" or better
Corequisite: SL 105
Provides advanced practice in interpreting for the deaf. Letter grade only. R E 3

SL 107 3/3/0/0
INTERPRETING SIGN TO VOICE
Prerequisite: SL 105 with a grade of "C" or better
Provides students with advanced interpreting skills, utilizing simulated interpreting environment, demonstration-lecture format. Emphasizes sign-to-voice interpreting. Letter grade only.

SL 189 .5-4/.5-4/.5-9/.5-9
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SL 201 1/0/2/0
FINGERSPELLING AND NUMBERS
Develops the skills in ASL fingerspelling and numbering including the use of letters, words, numbers and loan signs. Improves ability to communicate in ASL about money and finances; measurements of time, duration, frequency and other applications of word, phrase, and number combinations. R E 1

SL 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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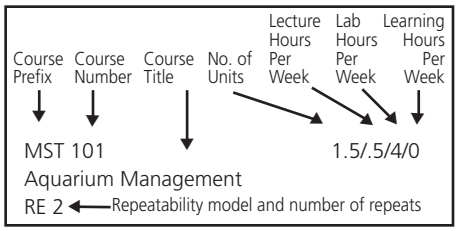
Sociology

SOC 1 3/3/0/0
INTRODUCTION TO SOCIOLOGY
Introduction to the basic concepts and theories of sociology. Topics include social institutions, culture, human behavior and relationships, personality, social forces, socialization, social class, social inequality, and sociological change.

SOC 2 3/3/0/0
SOCIAL PROBLEMS
Emphasis on the extent, causes, and consequences of a number of social problems: crime, juvenile delinquency, family disorganization, and race relations.

SOC 4 3/3/0/0
INTRO TO CHICANA/O LATINA/O STUDIES IN CONTEMPORARY SOCIETY
Surveys Chicana/o Latina/o heritage and culture and participation and contribution to the general culture of the United States. Focuses on customs, economic, political, social, artistic, and literary development of Chicanas/os Latinas/os in the American experience.

SOC 5 3/3/0/0
INTRODUCTION TO AFRICAN AMERICAN CULTURE
Recommended Preparation: SOC 1
Examines and compares the diverse experiences of African Americans in terms of their sociological, psychological, cultural, and historical background. Topics include cultural practices and beliefs, gender and family life, religion, politics, and the changing roles of African Americans within the American society. Other topics such as slavery, segregation, prejudice, discrimination, protest, social change, assimilation, and success will also be discussed.



SOC 6 3/3/0/0
INTRODUCTION TO ASIAN CULTURES IN THE UNITED STATES

Compares the diverse experiences of Asian Americans, including the sociological, psychological, and historical backgrounds of Japanese, Chinese, Korean, Filipino, Asian Indian, and Vietnamese Americans. Includes immigration history, cultural practices, beliefs, gender perception, family life, religion, politics, prejudice, discrimination, assimilation, economic and educational success, and the changing roles of Asian Americans within American society.

SOC 10 3/3/0/0
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.

SOC 15 3/3/0/0
CHILD, FAMILY, AND COMMUNITY

Recommended Preparation: ENG 200 and 340

An examination of the developing child in a societal context focusing on the interrelationship of family, school and community with an emphasis on historical, cultural, and political factors that influence the process of socialization including identity development. Highlights the importance of respectful, reciprocal relationships that support and empower families. Major theoretical perspectives will be examined. Also listed as CD 15. Credit given in either area, not both (formerly CDES 15) DS2

SOC 20 3/3/0/0
ETHNIC CULTURES OF THE UNITED STATES

A general overview of the sociological, psychological, and historical background of selected ethnic groups in the United States. Topics include social, political, and economic factors as well as intergroup relationships, prejudice, discrimination, affirmative action, immigration, assimilation, and social change. Also listed as HIST 20. Credit given in either area, not both.

SOC 21 3/3/0/0
WOMEN IN CONTEMPORARY SOCIETY

An introductory survey of the lives, roles, and status of women in contemporary American society. The cultural, social, psychological, and economic conditions of women will be explored. Topics include life-cycle, sex role socialization, intimate relationships, the family, self-image, female, health and sexuality, crime and deviance, work, religion, politics, and cultural diversity.

SOC 25 3/3/0/0
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, social mobility, social inequality, and changes in class systems are discussed and evaluated. Specific dimensions of social stratification discussed are economic and social class status, race and ethnicity, gender, sexual orientation, political participation and power, and global stratification. Specific consequences of social status are evaluated. Both a macro and micro analysis will be applied to social stratification and its consequences on society and the individual.

SOC 30 3/3/0/0
SOCIAL PSYCHOLOGY

Recommended Preparation: PSYC 1 or SOC 1

Introduction to phenomena related to social behavior and social influences on behavior. Topics include social perception and cognition, personality, attitudes and attitude change, attraction, altruism, aggression, interpersonal influence, social norms and group processes. Also listed as PSYC 30. Credit given in either area, not both.

SOC 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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SOC 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Spanish

SPAN 1 5/5/0/0
ELEMENTARY SPANISH

Corequisite: SPAN 999A
Recommended Preparation: College-level reading ability

Designed to develop the fundamentals of communicative competence in colloquial 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 high school Spanish.

SPAN 1A 2.5/3/0/0
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. SPAN 1A is equivalent to the first half of SPAN 1. Combination of SPAN 1A and 1B is equivalent to two years high school Spanish.

SPAN 1B 2.5/3/0/0
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 SPAN 1. Combination of SPAN 1A and 1B is equivalent to two years high school Spanish.

SPAN 2 5/5/0/0
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 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 5/5/0/0
INTERMEDIATE SPANISH

Prerequisite: SPAN 2 or three years of high school Spanish
Corequisite: SPAN 999B

Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Spanish cultures.

SPAN 4 5/5/0/0
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. Includes selected readings and discussions from the basic four genres in Hispanic and Hispanic-American literature, culture, and customs.

SPAN 6 3/3/0/0
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 3/3/0/0
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.

SPAN 20A 3/3/0/0
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 through 1898. Conducted in Spanish.

SPAN 20B 3/3/0/0
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 from 1900 to present. Conducted in Spanish.

SPAN 21A 3/3/0/0
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 3/3/0/0
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 21C 3/3/0/0
HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the influence in the life, culture and literature of the different Hispanic groups in the United States.

SPAN 250 1/3/0/0
PRACTICAL SPANISH
Emphasizes conversational skills in Spanish 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

SPAN 999A .25/0/0/1
SPANISH LANGUAGE LAB
Corequisite: SPAN 1, 1A, 1B, 2
Requires concurrent enrollment in designated Elementary Spanish courses. Enhances and provides practice in skills learned in Elementary Spanish courses. R E 3

SPAN 999B .25/0/0/1
SPANISH LANGUAGE LAB
Corequisite: SPAN 3, 4
Requires concurrent enrollment in designated Intermediate Spanish courses. Enhances and provides practice in skills learned in Spanish language courses. R E 3

Special Education

SE 101 3/2/3/0
INTRODUCTION TO THERAPY AND REHABILITATION
Designed to provide information and practical experience to students pursuing a career in physical therapy, occupational therapy, recreation therapy, adapted physical education, speech pathology or other health care fields that work with disabled or injured populations.

SE 102 1.5/0/9/0
ADAPTED KINESIOLOGY ASSISTING
Recommended Preparation: SE 101
Designed to provide practical experience and fundamental application of applied exercise for disabled students active in an adapted physical education program. Students have the opportunity to work with a wide range of students with varying degrees and types of disabilities and disease manifestations. R A 1

SE 189 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Special Services

SPS 115 3/3/0/0
ALTERNATIVE LEARNING STRATEGIES
Recommended Preparation: Diagnostic assessment
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 disability terms and concepts and various learning modes and encourages students to explore alternative learning strategies and study techniques.

SPS 205 1.5/1.5/0/0
PERSONAL AWARENESS AND SUCCESS STRATEGIES
Recommended Preparation: Verification of disability and recommendation of Special Services counselor or specialist
Designed to help students with disabilities learn how to manage their academic and personal challenges, advocate for themselves, improve communication, social and time management skills. Includes college success strategies, legal rights, ethics, problem solving skills, decision making strategies and learning about available supportive resources. R E 3

SPS 289 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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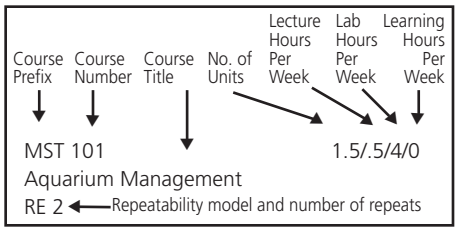
SPS 300 0/0/.5/0
EDUCATIONAL PLANNING, ASSESSMENT, AND ORIENTATION
Recommended Preparation: Conference with Special Services counselor or specialist
Designed to assess and evaluate educational, cognitive and/or communication performance and achievement levels for students with disabilities. Develop the student education contract/plan and determines appropriate accommodations for learning. Orientation to supportive services and specialized learning outcomes. Offered on an open-entry/open-exit basis.



SPS 310 3/3/0/0
MEMORY AND ATTENTION SKILLS
Recommended Preparation: Conference with college Special Services counselor or specialist
Designed to provide students with disabilities an understanding of how the memory system is organized and how it works. The relationship between attention and memory is addressed and factors impacting these skills recognized. Students will identify individual attention and memory difficulties and learn practical strategies to compensate for deficits. R E 3

SPS 315 1.5/0/3/0
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 3/3/0/0
INTRODUCTORY COMPUTATIONAL SKILLS
Recommended Preparation: Verification of disability and conference with disability specialist. Arithmetic skill level at 4th grade or above.
Designed for students with disabilities. 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 3/3/0/0
ADVANCED COMPUTATIONAL SKILLS
Recommended Preparation: Verification of disability and successful completion of SPS 320A
Designed for students with disabilities. 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 3/3/0/0
WRITING DEVELOPMENT PRACTICUM
Recommended Preparation: Diagnostic assessment
Designed as specialized prescriptive instruction based on diagnosis of individual need in the specific area of written communication. Structured for the student with specific learning disabilities. R E 1

SPS 340 3/3/0/0
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 342 2/2/0/0
SPEECH, LANGUAGE AND CONVERSATION
Recommended Preparation: Verification of disability and completed Student Education Contract
Focuses on an improved understanding of the strategies and skills needed to develop more effective expressive language skills and interpersonal communication skills for people with disabilities. Students will explore the area of speech production, verbal language expression, auditory comprehension, pragmatic communication, dialogues, and oral presentations. Students will also become familiar with software to further develop strategies for verbal communication. R E 3

SPS 345 3/3/0/0
LIPREADING AND HEARING CONSERVATION
Designed to enable students to develop and practice lipreading skills necessary for social functioning. Helps the student to better understand his or her own hearing loss. R E 1

SPS 347 0/3/0/0
BEGINNING LIPREADING AND HEARING CONSERVATION
Designed to enable students to develop and practice lipreading skills necessary for social functioning. Helps students to better understand hearing loss. R E 99

SPS 350 2/1/2/0
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 2/1/2/0
COMPUTER TECHNOLOGY FOR STUDENTS WITH DISABILITIES
Recommended Preparation: Verification of disability and/or diagnostic assessment. Recommend completion of SPS 350 or previous computer experience.
Provides training for students with disabilities in more concepts using their prescribed access technology to increase academic productivity. Students will enhance their computer-access skills by learning new adaptive strategies and hands-on projects. R E 3

SPS 360 1/0/2/0
ADAPTED COMPUTER ACCESS LAB
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 .5-4/.5-4/.5-9/.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 1

Special Studies Workshop

SPSW 1 1 or 2 or 3/TBA
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 division dean and the Office of Instruction.

Speech

SP 1 3/3/0/0
COMMUNICATION FUNDAMENTALS
Designed to enable the student to understand and use the processes of communication in the making of personal and social decisions in everyday life, including an understanding of problems and propositions; organizations and development of thought processes; support of ideas; and methods of research, criticism and evaluation. Platform speaking experience will be required.

SP 2 3/3/0/0
PERSUASION
Recommended Preparation: SP 1 and ENG 1A with a grade of "C" or better
Examines the components of persuasive messages with focus upon ethics, logic, reasoning, and fallacies as they relate to the use of evidence, speaker credibility, and emotional appeals directed toward various types of audiences. A minimum of two persuasive speech claims will be developed through a series of written outlines, essays, and manuscripts.

SP 3 3/3/0/0
ARGUMENTATION AND DEBATE
Recommended Preparation: SP 1 and ENG 1A with a grade of "C" or better
Focuses on the application of argumentative methods, analysis, sound reasoning, and critical thinking. Through participation in two types of debates on current topics and writing a series of persuasive essays totaling eight to ten thousand words, students will research, formulate propositions, and discover culturally diverse issues as they apply to social and personal decision-making.

SP 5 3/3/0/0
INTERPERSONAL COMMUNICATION
Introduction to strategies and behaviors in all aspects of the interpersonal communication process. Includes study of self concept, relationships, perception, listening, verbal and non-verbal communication.

SP 8 3/3/0/0
GENDER COMMUNICATION
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. Includes verbal and nonverbal aspects of communication; social and cultural expectations and roles; and problem analysis and decision-making specific to gender conflict. Enables students to appreciate gender differences and to listen and interact more effectively.

SP 20 3/3/0/0
INTERCULTURAL COMMUNICATION
Designed to reveal how culture influences interaction patterns. Includes the theory and the process of communicating with people across cultural, ethnic, and racial divides, interaction in various contexts such as interpersonal relationships, small groups, and work environments. Also listed as ANTH 20. Credit given in either area, not both.

SP 30 3/3/0/0
INTRODUCTION TO ORAL INTERPRETATION
Survey of prose, poetry, and drama. Focuses on the analysis and criticism of literature, examines various interpretive theories within the context of the period written. Students will present and perform literary selections. Also listed as TA 30. Credit given in either area, not both.

SP 32 3/3/2/0
INTERPRETERS' THEATRE
Recommended Preparation: SP 30 or TA 30
Stressing the techniques of script preparation, direction, and staging of literature. Coursework will culminate in a student-performed and directed Interpreters' Theatre. Also listed as TA 32. Credit given in either area, not both.

SP 35 3/3/0/0
VOICE AND DICTION
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 TA 35. Credit given in either area, not both. R E 3

SP 106
1 or 2 or 3/1 or 2 or 3/1 or 2 or 3/0
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 of literature. Participation is required for credit. Offered as open-entry/open-exit. R E 3

SP 189 .5-4/.5-4/.5-9/.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 1

Theatre

TA 1 3/2/3/0
ACTING
Emphasizing the form and content of the art of acting, including pantomime, action, motivation, and beginning scene study with emphasis on improvisation.

TA 2 3/2/3/0
BEGINNING SCENE STUDY
Recommended Preparation: TA 1
Concentrates on scene study, characterization, and ensemble performance, working toward a realization of method of approach.

TA 3 3/2/3/0
ADVANCED SCENE STUDY
Recommended Preparation: TA 2
Special concentration on scene study; performing scenes from the plays of Ibsen, Chekhov, and Pinter is stressed. Students may also perform in student-directed one act plays.

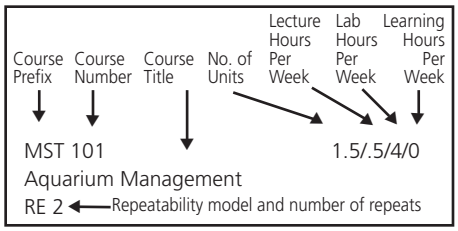
TA 4 3/2/3/0
ACTING STYLES-CLASSICAL
Recommended Preparation: TA 2
Devoted to the training of classical styles, including Greek, Romanesque, Elizabethan, and Commedia del Arte.

TA 5 3/2/3/0
ACTING STYLES-CONTEMPORARY
Recommended Preparation: TA 2
Devoted to the training of contemporary styles from 1945 to the present, including such styles as Absurdism.

TA 7 3/2/3/0
ACTING FOR TELEVISION AND FILM
Prerequisite: TA 1
Principles and techniques of various performance methods involved in acting for television and motion pictures. Directed exercises and dramatic scenes.

TA 10 3/2/3/0
MUSICAL THEATRE TECHNIQUES
Principles and techniques of the various performance methods and styles involved in performing for the musical theatre. Solo and choral singing, dancing, and acting will be taught through a series of exercises culminating in the performance of a musical.

TA 11 3/2/3/0
STAGE MOVEMENT
Designed to assist students in using their physical movements to embellish and augment characterization. Principles of mime and pantomime will supplement the concepts of psychological and physical sources of movement.



TA 12 3/3/0/0
DIRECTING
Recommended Preparation: TA 1
An introduction to the role of the director in modern theatrical production. Study of the director's interpretation of dramatic literature, with emphasis on the communication of intellectual and emotional concepts through composition, picturization, movement, and rhythm.

TA 15 1 or 2/0/3 or 6/0
REHEARSAL AND PERFORMANCE: DRAMA
Emphasizes the preparation of serious dramatic productions for public performance, including acting, technical, and production management. Open-entry/open-exit course. R E 3

TA 16 1 or 2/0/3 or 6/0
REHEARSAL AND PERFORMANCE: COMEDY
Emphasizes the preparation of comic productions for public performance, including acting, technical, and production management. Open-entry/open-exit course. R E 3

TA 17 1 or 2/0/3 or 6/0
REHEARSAL AND PERFORMANCE: MIXED GENRES
Emphasizes the preparation of comic productions of mixed genres for public performance including acting, technical, and production management. Open-entry/open-exit course. R E 3

TA 18 1/0/3/0
REHEARSAL AND PERFORMANCE: DANCE
Emphasizes the preparation of a dance production, including dance concerts, musical theatre production, and operas. Open-entry/open-exit course. R E 3

TA 19 1 or 2/0/3 or 6/0
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. Open-entry/open-exit course. R E 3

TA 20 3/3/0/0
THEATRE APPRECIATION
Examines theatre, art, history, the role of the actor and director, and exemplary plays.

TA 22 3/3/0/0
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 3/3/0/0
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 3/3/0/0
THEATRE HISTORY: RENAISSANCE TO CONTEMPORARY
Reading and discussing 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 3/3/0/0
INTRODUCTION TO ORAL INTERPRETATION
Survey of prose, poetry, and drama. Focuses on the analysis and criticism of literature, examines various interpretive theories within the context of the period written. Students will present and perform literary selections. Also listed as SP 30. Credit given in either area, not both.

TA 32 3/3/2/0
INTERPRETERS' THEATRE
Recommended Preparation: SP 30 or TA 30
Stressing the techniques of script preparation, direction, and staging of literature. Coursework will culminate in a student-performed and directed Interpreters' Theatre. Also listed as SP 32. Credit given in either area, not both.

TA 35 3/3/0/0
VOICE AND DICTION
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 given in either area, not both. R E 3

TA 40 4/3/3/0
STAGECRAFT
Principles and techniques of stagecraft, including stage terminology, TA architecture, scenic construction, painting, tools, materials, and production organization.

TA 41 3/2/3/0
STAGE LIGHTING
Prerequisite: TA 40
Studies the process of lighting design as well as the equipment. Includes reading a light plot, hanging a show, lighting instruments, computer light boards, electricity, color theory, and design.

TA 42 3/2/3/0
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 1/0/3/0
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 2/1/3/0
THEATRE SCENERY PAINTING
Prerequisite: TA 40
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 3/2/3/0
SCENE DESIGN
Prerequisite: TA 40
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 100 3/1/4/0
APPLIED TECHNICAL THEATRE PRODUCTION
Recommended Preparation: MATH 351
Focuses on pre-production skills and techniques needed prior to opening a theatrical production. Designed for those interested in a career in technical theatre. R E 3

TA 101 3/2/3/0
FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE
Prerequisite: TA 40
Explores the techniques used to communicate visual ideas in the theatrical and entertainment industry, the use of hand-drawing, drafting, basic perspective and supporting computer applications are emphasized. Historical and contemporary concepts and practices in the visual arts of theatre and entertainment.

TA 102 3/3/0/0
STAGE MANAGEMENT
Prerequisite: TA 1, 40
Discussion and research into the duties, responsibilities, and roles of a stage manager. Includes studies in script breakdown, communication, rehearsal procedures and performance skills.

TA 103 1/1/0/0
ENTERTAINMENT INTERNSHIP
Analyze and apply techniques of job application, interviewing, resume writing and portfolio presentation specific to the entertainment industry.

TA 104 3/2/3/0
COSTUME CRAFTS
Explores the techniques used for costumes and costume accessory construction, including paint and dye, millinery, leatherwork, metalwork, mask making, sculptures and casting as well as puppetry. Crew assignment for college productions is required and will provide instruction in costume crafts.

TA 108 3/2/3/0
AUDITION TECHNIQUES
Emphasizes the process of auditions, cold readings, script analysis, interviews and unrehearsed scenes. Includes resume writing techniques, interview techniques and casting instruction for the actor.

TA 110 3/3/0/0
CHICANA/O LATINA/O THEATRE
Focusing on the evolution of Chicana/o Latina/o dramatic literature, course will analyze playwrights and theatre groups that express the Chicana/o Latina/o experiences in the United States, examining relevant "actos," plays, and documentaries to their contributions in the development of the Chicana/o Latina/o Theatre movement.

TA 113 1 or 2/0/3 or 6/0
REHEARSAL AND PERFORMANCE: CHILDREN'S THEATRE
Emphasizes the preparation of play production for the child audience for public performance, including acting, technical, and production management. Open-entry/open-exit course. R E 3

TA 130 3/2/3/0
THEATRE MANAGEMENT
Examines the economic and administrative responsibilities of the Performing Arts Manager. Includes management principles of producing, presenting, audience development, fund raising, business management and organization.

TA 142 .5 or 1/.5 or 1/1 or 2/0
THEATRE PRODUCTION
Covers basic terminology, safety, lighting, and stagecraft equipment and techniques, as well as the production and running of theatrical shows. R E 3

TA 189 .5-4/.5-4/.5-9/.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 1

TA 201 3/2/3/0
ENTERTAINMENT COMPUTER AIDED DRAFTING
Recommended Preparation: TA 101
Create and manage basic drawings for the entertainment industry using standard drafting software and techniques. R E 3

TA 210 3/2/3/0
SCENE STUDY FOR AMERICAN MUSICAL THEATRE
Limitation: By audition only
Recommended Preparation: TA 10
Concentrates on scene study, characterization, song repertory, and ensemble performance in American musical theatre. R E 3

TA 211 3/2/3/0
MUSICAL THEATRE AUDITION TECHNIQUES
Recommended Preparation: MUS 1, TA 10
Designed for students preparing to audition for musical theatre productions. Every aspect of the musical audition will be addressed, emphasizing music selection, preparation, and building of repertoire. R E 3

TA 213 1/0/3/0
PUPPET-MAKING AND PERFORMANCE
Designed for theatre students, art students and teachers, psychologists, and those interested in puppetry. Tabletop puppets, hand puppets, rod puppets and string puppets will be covered. Students construct at least two puppets using additive sculpture techniques, body construction, painting, costuming, and wigging techniques. R E 3

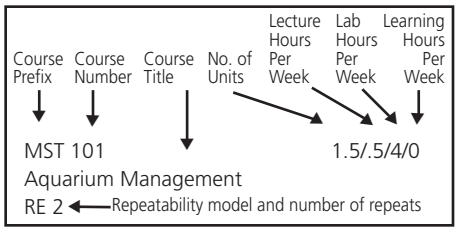
TA 214 1/0/3/0
AUDITION AND INTERVIEW TECHNIQUES FOR KCACTF AND URTA
Develops technical skills, acting skills and interview skills specific to participation in the Kennedy Center American Theatre Festival auditions and the University Resident Theatre Association auditions. R E 3

TA 240 3/2/3/0
ADVANCED STAGECRAFT
Prerequisite: TA 40
Principles and techniques of stagecraft, with emphasis on stage properties, alternative materials, the use of computers as it relates to automation and organization at theatrical events, automated lighting, alternate spaces, special effects, and stagecraft as a profession and as it relates to all entertainment, including film, television and theme parks.

TA 246 3/2/3/0
THEATRE AUDIO TECHNIQUES
Prerequisite: TA 40
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.

TA 250 .5 or 1 or 2/0/1.5 or 3 or 6/0
SUMMER CONSERVATORY MUSICAL THEATRE
Limitation: By audition only
Specializing in musical theatre training as cast or an orchestra member for a specific theatrical production. R E 3

TA 251 .5 or 1 or 2/0/1.5 or 3 or 6/0
SUMMER CONSERVATORY MUSICAL THEATRE: PRODUCTION
Recommended Preparation: TA 40 or 142
Specializes in theatre production, stagecraft, lighting, sound, costumes, and make-up. R E 3



TA 252 **.5 or 1 or 2/0/1.5 or 3 or 6/0**
SUMMER CONSERVATORY EARLY 20TH CENTURY MUSICAL THEATRE
Limitation: By audition only
Vocal specialization in musical theatre as a cast member in a theatrical production originally written and performed from 1900-1942. R E 3

TA 253 **.5 or 1 or 2/0/1.5 or 3 or 6/0**
SUMMER CONSERVATORY MID 20TH CENTURY MUSICAL THEATRE
Limitation: By audition only
Specializes in musical theatre training as a cast member for a theatrical production originally written and performed from 1943-1966. R E 3

TA 254 **.5 or 1 or 2/0/1.5 or 3 or 6/0**
SUMMER CONSERVATORY LATE 20TH CENTURY MUSICAL THEATRE
Limitation: By audition only
Specializes in musical theatre training as a cast member for a theatrical production originally written and performed from 1967-1999. R E 3

TA 255 **.5 or 1 or 2/0/1.5 or 3 or 6/0**
SUMMER CONSERVATORY CONTEMPORARY MUSICAL THEATRE
Limitation: By audition only
Specializes in musical theatre training as a cast member for a theatrical production originally written and performed after 2000. R E 3

TA 289 **.5-4/.5-4/.5-9/.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 1

Travel and Tourism

TOUR 250 **3/3/0/0**
INTRODUCTION TO TRAVEL AND TOURISM
Introduction to the basics of the travel industry and its various avenues for an exciting career. Methods and practices for locating both domestic and international tickets for domestic and international itineraries, routes, tariffs, and fares. Understanding travel industry documents for domestic and international itineraries. Documentation requirements and travel regulations will be covered.

TOUR 252 **3/3/0/0**
WORLD DESTINATIONS AND RESORTS--WESTERN HEMISPHERE
Provides knowledge of hotels, sightseeing and tourist attractions, geographical locations, and local transportation in major destinations within the Western hemisphere. Areas covered include the 48 continuous United States, Alaska, Hawaii, Mexico, Canada, the Caribbean, the Bahamas and Bermuda Islands, and Central and South America.

TOUR 253 **3/3/0/0**
WORLD DESTINATIONS-EUROPE
Study sightseeing highlights, tourist attractions, currency, customs and local transportation in major destinations within the most visited countries of Europe.

TOUR 254 **3/3/0/0**
WORLD DESTINATIONS-PACIFIC, ASIA, AFRICA, MIDDLE EAST
Study accommodations, sightseeing highlights, tourist attractions, currency, customs and local transportation in countries most visited by American tourists in Africa, the Middle East, Asia, and the Pacific.

TOUR 255 **3/3/0/0**
TRAVEL SALES AND MARKETING
Prepares students for careers in the travel industry. Methods and practices for promoting and marketing for the travel industry will be covered.

TOUR 257 **3/3/0/0**
TOURS AND CRUISES
Methods and practices for booking tours and cruises worldwide. Fundamentals of the tour and cruise industry, including various products and comparisons.

TOUR 259 **2/1/2/0**
AIRLINE COMPUTER TRAINING
Recommended Preparation: TOUR 250
Designed for advanced travel and tourism students with emphasis on basic SABRE computer training including P.N.R. (Passenger Name Record).

TOUR 260 **2/1/2/0**
ADVANCED AIRLINE COMPUTER TRAINING
Recommended Preparation: TOUR 259
Designed for the advanced travel and tourism students with emphasis on advanced SABRE computer training, including invoice/itinerary and PHASE IV applications. R E 3

TOUR 289 **.5-4/.5-4/.5-9/.5-9**
SPECIAL TOPICS
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Tutoring

TU 100 **2/1/2/0**
FUNDAMENTALS OF PEER TUTORING
A general introduction to the role of the tutor in education. Focuses 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 **0/0/0/12**
SUPERVISED TUTORING
Designed to provide assistance for students 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

Women's and Gender Studies

WS 10 **3/3/0/0**
INTRODUCTION TO WOMEN'S STUDIES
An exploration of the impact of social institutions and cultural practices on the lives of women in the contemporary United States. Focuses on the ways in which differences of race, ethnicity, class, sexuality, and age define women's experiences and identities.

WS 40 3/3/0/0
WOMEN AND RELIGION: IN SEARCH OF THE GODDESS

Examines the basic concepts and practices of the world's religions as they relate to women. Students will explore feminine mythology and imagery alongside the roles and rituals of women within a range of religious traditions, including those of "primal" societies and Hindu, Buddhist, Chinese, Japanese, Jewish, Christian, and Muslim faiths. The study will also consider the particular religious experiences of women in America.

WS 120 3/3/0/0
WOMEN AND CAREERS

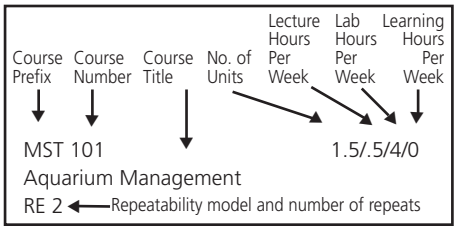
Complete process of self-evaluation, decision-making, and goal setting. Offers the opportunity to reassess career aspirations, to explore the current job market, and to become acquainted with successful job-hunting and career-planning techniques.

WS 189 .5-4/.5-4/.5-9/.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 1

WS 289 .5-4/.5-4/.5-9/.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 1


Course Prefix
Course Number
Course Title
No. of Units
Lecture Hours Per Week
Lab Hours Per Week
Learning Hours Per Week
MST 101
Aquarium Management
1.5/.5/4/0
RE 2
Repeatability model and number of repeats

Emeritus Accounting

ACCT 229X 0/1 or 2/0/0
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 99

ACCT 231X 0/2/0/0
ESTATE PLANNING (EI)
Discusses taxes, administration, and distribution of estates. Emphasizes revocable living trusts, wills, probate, tenancy, and health care alternatives. R 99

ACCT 232X 0/1 or 2/0/0
STOCKS AND BONDS MANAGEMENT (EI)
Studies global economics, bond markets, stock markets and mutual funds. Structured to help investors develop their own investment philosophy. R 99

ACCT 299 .5-4/.5-4/.5-9/.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 1

Emeritus Adapted Physical Education

see Emeritus Kinesiology-Adapted

Emeritus Art

ART 10X 0/.5 or 1/1 or 2/0
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 99

ART 11X 0/1/2/0
BEGINNING CERAMICS-WHEEL (EI)
Introduction to beginning techniques of ceramics wheel building, with emphasis on traditional shapes and forms. Includes wheel throwing techniques, trimming, finishing, firing and glazing. R 99

ART 12X 0/.5 or 1/1 or 2/0
INTERMEDIATE CERAMICS (EI)
Recommended Preparation: ART 11X
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 99

ART 13X 0/.5 or 1/1 or 2/0
ADVANCED CERAMICS (EI)
Recommended Preparation: ART 12X
Course directs advanced projects in ceramics with emphasis on use of the potter's wheel. Evaluation of forms and creative use of ceramic concepts and materials will be emphasized. Design, forming and glazing techniques will be presented. R 99

ART 14XA 0/1/.5 or 2/0
BEGINNING CERAMICS-SLIPCASTING (EI)
Teaches theory and basic techniques in ceramics including pouring slip into molds (slipcasting), finishing, carving, underglaze, glaze, overglaze applications, and firing. R 99

ART 14XB 0/1/2/0
INTERMEDIATE CERAMICS-SLIPCASTING (EI)
Recommended Preparation: ART 14XA
Intermediate level theory and technique in low firing clay to high porcelain slipcasting. Exploration of basic functions, forms, color, glazing and decorative techniques. R 99

ART 14XC 0/1/2/0
ADVANCED CERAMICS-SLIPCASTING (EI)
Recommended Preparation: ART 14XB
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 99

ART 14XD 0/1/2/0
ART OF 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 99

ART 15X 0/1/2/0
FABRIC DRAPING PORCELAIN (EI)
Explores the theory and practice of draping porcelain figures. Casting the mold, lace and fabric draping, china painting, and spray glazing are included. R 99

ART 20X 0/2/0/0
ART APPRECIATION (EI)
Focuses on the fundamentals of art, as well as the major developments that shaped the evolution of the Western art. R 99

ART 25X 0/2/0/0
ART HISTORY (EI)
Surveys the history of Western art. Focuses on major works of lasting significance from primitive to modern. R 99

ART 28X 0/2/0/0
CONTEMPORARY ART AND CULTURE (EI)
Emphasis on 20th century art, culture, and architecture. Explores cultural forces that shaped the arts and how the arts, in turn, shaped diverse cultures. R 99

ART 31XA 0/2/1/0
BEGINNING INTARSIA (EI)
Recommended Preparation: ART 61XA
Different types of intarsias: landscape, geometric designs, color designs, faces and people, birds and animals. R 99

ART 31XB 0/1/2/0
INTERMEDIATE INTARSIA (EI)
Recommended Preparation: ART 31XA
Develop a perspective of intarsia by size and color. Includes details on faces, animals, and birds. Advanced methods in pointing and fitting of stone, and channel work are included. R 99

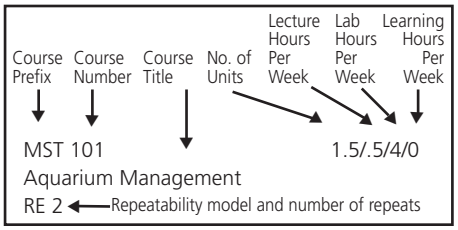
ART 33XA 0/1/2/0
BEGINNING ENAMELING (EI)
Introductory studio course on basic enameling techniques for the beginner. R 99

ART 33XB 0/1/2/0
INTERMEDIATE ENAMELING (EI)
Recommended Preparation: ART 33XA
A studio course emphasizing traditional and contemporary concepts, processes and techniques in enameling at an intermediate level. R 99

ART 34XA 0/1/2/0
CHINA PAINTING-CLEAR, DESIGN (EI)
Designed to explore and practice techniques of china painting with an emphasis on color and design. Touches on European, conventional and naturalistic designs. Techniques include inking, gold, enameling, and lustre. Develops creative expression. R 99

ART 35XA 0/1/2/0
BEGINNING STAINED GLASS (EI)
Designed for beginners to explore and practice techniques of stained and leaded glass art and copper-foil technique in Tiffany lampshades or panel projects. R 99

ART 35XB 0/1/2/0
ADVANCED STAINED GLASS (EI)
Recommended Preparation: ART 35XA
Designed to explore the possibilities of working in glass by utilizing the kiln to fuse, tack, and slump objects using tested compatible glass. Create a variety of projects incorporating techniques learned in previous 'cold glass' courses. R 99



ART 36XA 0/.5 or 1/1 or 2/0
BEGINNING JEWELRY METAL FABRICATION (EI)
Includes theory, demonstration, and practice in design and construction of jewelry made by fabrication for decorative wear. R 99

ART 36XB 0/.5 or 1/1 or 2/0
INTERMEDIATE JEWELRY METAL FABRICATION (EI)
Recommended Preparation: ART 36XA
Introduction to intermediate methods, materials, and practices in the construction of jewelry by metal fabrication. Includes the study of design for making rings, chains, brooches, pendants, and the decorating and setting of stones in jewelry. Necessary tools, their uses, and types of metals will be discussed. R 99

ART 36XC 0/1/2/0
ADVANCED JEWELRY METAL FABRICATION (EI)
Recommended Preparation: ART 36XB
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. Production methods will be discussed. R 99

ART 39XA 0/1/2/0
BEGINNING JEWELRY DESIGN LOST WAX (EI)
Includes theory, demonstration, practice and design in construction of jewelry made by the lost wax method for decorative wear. R 99

ART 39XB 0/1/2/0
INTERMEDIATE JEWELRY DESIGN LOST WAX (EI)
Recommended Preparation: ART 39XA
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 99

ART 41X 0/1/2/0
ART MEDIA STUDIES (EI)
Older adult students are introduced to art media and related fine arts processes. Traditional and contemporary processes in fine art/mixed media and related processes; drawing, painting, printmaking, collage and assemblage in both two dimensional and three dimensional art forms. R 99

ART 50X 0/.5 or 1/1 or 2/0
BEGINNING PAINTING IN OIL/ACRYLIC (EI)
Includes the basic elements of drawing, color, design and painting as the older adult learns the use of materials and techniques in oil, acrylic, and other media. Emphasizes individual style and expression. R 99

ART 51X 0/.5 or 1/1 or 2/0
INTERMEDIATE PAINTING IN OIL/ACRYLIC (EI)
Recommended Preparation: ART 50X
Designed for older 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 in oil, acrylic, and other media. R 99

ART 52X 0/.5 or 1/1 or 2/0
ADVANCED PAINTING IN OIL/ACRYLIC (EI)
Recommended Preparation: ART 51X
Designed for older adults who have 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 in oil, acrylic, and other media. R 99

ART 53X 0/.5 or 1/1 or 2/0
PAINTING IN SUBJECT AREAS (EI)
Recommended Preparation: ART 52X
Provides theory and demonstration of material, applications, and techniques in a variety of subject matter and art mediums. Various exercises in the use of material, composition, perspective, and values. R 99

ART 54X 0/1/2/0
PORTRAIT PAINTING IN OILS, WATERCOLOR AND PASTELS (EI)
Recommended Preparation: ART 85X
Constructing the head and features using multi-media. Includes choosing a pose, lighting, and backgrounds. Demonstrations in oils, watercolors and pastels. R 99

ART 55XA 0/1/2/0
BEGINNING CHINESE BRUSH PAINTING (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 99

ART 55XB 0/1/2/0
INTERMEDIATE CHINESE BRUSH PAINTING (EI)
Recommended Preparation: ART 55XA
Develop skills in handling the brush, ink, and color in a wide range of subjects while exploring concepts of design and composition. Explore history and aesthetics of Chinese painting. R 99

ART 56X 1.75/1/2/0
PASTEL PAINTING(EI)
Traditional and contemporary methods in the use of painting with pastels. The older adult explores a variety of techniques in the pastel medium. R 99

ART 58X 0/.5 or 1/1 or 2/0
BEGINNING WATERCOLOR (EI)
Basic methods of applying watercolor in washes, color mixing and brush technique. The spontaneity of transparent watercolor will be stressed and explored. R 99

ART 59X 0/.5 or 1/1 or 2/0
INTERMEDIATE/ADVANCED WATERCOLOR (EI)
Recommended Preparation: ART 58X
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 99

ART 61XA 0/1/2/0
BEGINNING LAPIDARY (EI)
Lapidary machines for cutting and polishing gemstones: slabsaw, trim saw, grinders, sanders, lapping wheels, polishers and drills. Study of thirty-one stones: their occurrence, hardness, luster and toughness; how to cut, trim, grind, dop, sand, polish and set gemstones, channel work and intarsia. R 99

ART 61XB 0/1/2/0
INTERMEDIATE LAPIDARY (EI)
Recommended Preparation: ART 61XA
Instruction in cutting and polishing gemstones making paperweights and bookends and use of lap wheels. Topics will cover: 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. R 99

ART 70X 0/1/2/0
BEGINNING SCULPTURE (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 99

ART 71X 0/.5 or 1/1 or 2/0
INTERMEDIATE SCULPTURE (EI)
Recommended Preparation: ART 70X
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 99

ART 80X 0/.5 or 1/1 or 2/0
BEGINNING SKETCHING (EI)
Basic drawing techniques with emphasis on individual artistic expression. Still life, student model, and some location work will be done in the classical media of pencil, charcoal and pastel. R 99

ART 81X 0/.5 or 1/1 or 2/0
INTERMEDIATE SKETCHING (EI)
Recommended Preparation: ART 80X
Classic sketching media will be used in still life, landscapes and life drawing. Builds upon basic drawing techniques. R 99

ART 82X 0/1/2/0
ADVANCED SKETCHING (EI)
Recommended Preparation: ART 81X
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 99

ART 85X 0/.5 or 1/1 or 2/0
BEGINNING LIFE DRAWING (EI)
Includes the fundamental structure of the human body, including skeletal and muscular systems. Sketching and drawing exercises allow students practice in portraying the body with reasonable accuracy, using line as practical exposition. R 99

ART 221 .5/1/0/0
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 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Biology

BIO 224X 0/1/2/0
NATURAL HISTORY OF SOUTHERN CALIFORNIA (EI)
Designed for older adults interested in local ecology and biological aspects of the coastal, valley, mountain, and desert environments of Southern California. Includes habitat types, natural history, and a study of plants, mammals, birds, and reptiles. R 99

BIO 226X 0/1/2/0
BIRDS OF THE WORLD (EI)
Includes bird ancestry, evolution, systematics, distribution, topography, behavior (song, territoriality, migration), and techniques of field identification of birds. Designed for older adults who wish to actively participate in a course outdoors. Includes field trips to local sites. R 99

BIO 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Communication Arts

CA 70X 0/2/1/0
VIDEO PRODUCTION (EI)
Surveys video presentation techniques. Includes pre-production, production, and post-production editing created from stills or original footage. R 99

CA 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Computer and Information Management

CIM 200 1/1/2/0
COMPUTER FUNDAMENTALS (EI)
This is an introductory hands-on computer course for beginners covering computer hardware and software. Course activities include using Windows, the Internet, e-mail, word processing and graphics software. Designed for the older adult. R E 3

CIM 201 1/1/2/0
COMPUTER APPLICATIONS (EI)
Recommended Preparation: CIM 200
Provides a computer hands-on exploration of application software, Windows, and the Internet. Activities include using the Internet and word processing, spreadsheet, database, and graphics software. Designed for older adults. R E 3

CIM 299 .5-4/.5-4/.5-9/.5-9
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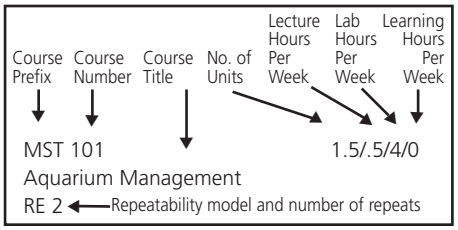
Emeritus English

ENG 3X 0/3/0/0
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 99

ENG 4X 0/3/0/0
ADVANCED CREATIVE WRITING (EI)
Recommended Preparation: ENG 3X
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 99

ENG 6X 0/3/0/0
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 99

ENG 40XA 0/2/0/0
BIBLICAL INFLUENCES ON LATER LITERATURE (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 99



ENG 40XA 0/2/0/0
THE BIBLE AS LITERATURE: GENESIS TO PSALMS (EI)
Presentation and discussion of the Old Testament from the Book of Genesis to Psalms. A non-theological approach with emphasis on the literary modalities and ontological content. Geographical, historical, and cultural determinants will be considered. R99

ENG 40XA 0/2/0/0
THE BIBLE AS LITERATURE: PSALMS 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 of the literary modalities and ontological content. R99

ENG 40XA 0/1 or 2/0
THE BIBLE AS LITERATURE: GOSPELS TO REVELATIONS (EI)
Presentation and discussion of the second half of the New Testament. According to John to his Apocalypse through the Pauline and non-Pauline Epistles in the same non-theological approach with emphasis of the literary modalities and ontological content. R99

ENG 52X 0/1.5 or 3/0/0
FILM AS LITERATURE (EI)
Examination of film as a 20th and 21st century art form. Considers foreign and domestic cinema with attention given to film in terms of archetype, myth, symbol, characterization, and plot. R 99

ENG 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus

Emeritus Environmental Studies

ENV 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Fashion

FASH 110XA 0/1/2/0
BEGINNING CLOTHING CONSTRUCTION (EI)
Emphasizing the operation of a sewing machine, pattern reading and garment construction. Basic sewing techniques needed to construct a garment. R 99

FASH 110XB 0/.5 or 1/1 or 2/0
INTERMEDIATE CLOTHING CONSTRUCTION (EI)
Recommended Preparation: FASH 110XA
Clothing construction and pattern alterations for personal wardrobe. Coordination of commercial patterns, fabric textures and principles of color design. R 99

FASH 110XC 0/1/2/0
ADVANCED CLOTHING CONSTRUCTION (EI)
Recommended Preparation: FASH 110XB
Advanced techniques in construction of garments. Use of designer patterns for a personal style. Handling of special fabrics. Fine custom details such as lining and underlining. R 99

FASH 124X 0/.5 or 1/1 or 2/0
WEARABLE ART (EI)
Design and construct a garment or accessory incorporating techniques of surface design, bobbin work, fabric manipulation, embellishment, and dimensional texture. Designed for the older adult. R 99

FASH 125X 0/1/2/0
RIBBON WORK (EI)
Learn techniques of ribbon manipulation. Includes classic and contemporary design methods in producing wearable adornments or accessories. Designed for the older adult interested in fashion design. R 99

FASH 130X 0/1/2/0
BASIC PATTERN CUSTOMIZING (EI)
Development of a basic pattern made to fit individual measurements. Pattern will be made in muslin and transferred to a permanent Pelon-made pattern. R 99

FASH 230X 0/1/2/0
ALTERATIONS AND FITTINGS (EI)
Recommended Preparation: FASH 230X
Basic procedures involved in altering ready-made garments, fitting patterns and clothing, sewing machine operations and garment production techniques. R 99

FASH 234X 0/.5 or 1/1 or 2/0
PATTERN DRAFTING (EI)
Recommended Preparation: FASH 130X
Drafting of an individual pattern designed to be used for sewing various types of garments. R 99

FASH 282XA 0/.5 or 1/1 or 2/0
BEGINNING CROCHETING (EI)
Introduction to crochet. Includes color, design, types of yarns, crochet thread, terminology used in reading, following patterns. Crochet techniques for projects used in the home and for wearing apparel. R 99

FASH 282XB 0/1/2/0
INTERMEDIATE CROCHETING (EI)
Recommended Preparation: FASH 282XA
Study of fibers used for crochet. Review of terms and techniques used in crochet patterns. New stitches and techniques of finishing and blocking projects. Adjusting patterns following the gauge changes for size; designing and adapting patterns to personal body measurements. R 99

FASH 283XA 0/.5 or 1/1 or 2/0
BEGINNING KNITTING (EI)
Introduction of knitting theory, techniques and materials. Includes casting on, basic stitches, finishing techniques, terminology, beginning pattern reading, use of test swatches, understanding gauge, basic designing and altering of patterns. R 99

FASH 283XB 0/.5 or 1/1 or 2/0
INTERMEDIATE KNITTING (EI)
Recommended Preparation: FASH 283XA
Develop knitting skills at an intermediate level. Explore newest yarns and fibers plus innovative stitches. R 99

FASH 286X 0/.5 or 1/1 or 2/0
QUILTING AND PATCHWORK (EI)
Fundamental quilting/patchwork techniques to include: applique, cathedral windows, crazy quilting, fabric selection, pattern drafting, piecing, reverse applique, and trapunto. R 99

FASH 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Foods and Nutrition

FN 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus French

FR 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus Geology

GEOL 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus German

GER 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus Gerontology

GERO 120X 0/1.5 or 3/0/0
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 99

GERO 150X 0/1.5 or 3/0/0
PHYSICAL FITNESS WEIGHT MAINTENANCE (EI)

Recommended Preparation: GERO 120X

Principles of achieving and maintaining ideal body composition through specific exercises and lectures on proper eating techniques. Discussion and exercise to enhance motivation. R 99

GERO 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus Health

HLTH 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus Health Sciences

HSC 105X 0/2/0/0
CONSUMER HEALTH ISSUES (EI)

Aids in maintaining health to make knowledgeable and discriminating decisions. Includes health economics, frauds, legislation, advertising, and insurance. Examines choice and use of doctor, pharmacist, and health care agencies. R 99

HSC 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus Hebrew

HEBR 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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Emeritus History

HIST 205X 0/1 or 2/0/0
WESTERN CIVILIZATION SINCE 1648 (EI)

Surveys the nature of Western Civilization considering its development since the 17th Century to the present. Major emphasis will be placed on industrialization, nationalism, imperialism, and selected problems of the 21st century. Designed for the older adult interested in contemporary issues of government. R 99

HIST 260 1/2/0/0
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 270 1/2/0/0
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 .5/1/0/0
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 275X 0/1 or 2/0/0
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 and their relationship to contemporary issues. Designed for the older adult interested in our current involvement and future direction in the Middle East. R 99

HIST 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS

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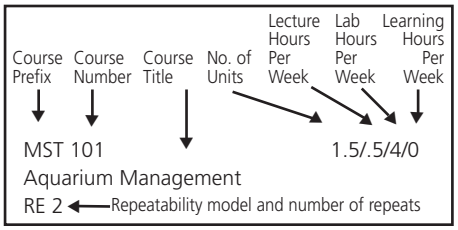

Emeritus Horticulture

HORT 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Humanities

HUM 204X 0/2/0/0
MODERN WORLD CULTURE:1700-PRESENT (EI)
Identifies and studies characteristically modern ideas about a variety of important human experiences as represented in literature, art, and philosophy. Themes studied include the decline of the supernatural, the development of sciences, the emergence of psychology, rise of individualism, skepticism, and the development of new attitudes toward home, work, and the human community for older adults. R 99

HUM 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Italian

ITA 299 .5-4/.5-4/.5-9/.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 1

Emeritus Journalism

JRN 299 .5-4/.5-4/.5-9/.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 1

Emeritus Kinesiology - Adapted

Formerly Adapted Physical Education

KNEA 2X 0/0/1.5 or 3/0
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 (formerly APE 2X). R 99

KNEA 101X 0/0/1 or 2/0
PHYSICAL FITNESS BACK (EI)
Methods for the prevention and care of back problems in older adults. Instruction in special exercises, relaxation training and lifestyle changes to prevent back problems (formerly APE 101X). R 99

KNEA 299 .5-4/.5-4/.5-9/.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 1

Emeritus Kinesiology

Formerly Physical Education

KNES 1X 0/0/2 or 3/0
AEROBIC FITNESS (EI)
Designed to stress individual cardiovascular and respiratory levels showing how the older adult can use aerobics 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. Designed for the mature adult (formerly PE 1X). R 99

KNES 2X 0/0/1 or 2/0
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 will result in a written exercise prescription. R 99

KNES 3X 0/0/1.5 or 2 or 3/0
PERSONALIZED AEROBIC FITNESS (EI)
Overview of basic fitness which include the importance of proper exercising techniques as they relate to the older adult. Students receive a personalized fitness program. R 99

KNES 4X 0/0/1.5 or 2 or 3/0
PHYSICAL FITNESS CIRCUIT TRAINING (EI)
Designed to improve/maintain strength and cardiovascular fitness for the mature adult. Proper techniques for using exercise equipment in a supervised circuit format. R 99

KNES 5X 0/0/2 or 3/0
SEQUENTIAL STRETCHING AND RELAXATION-EI
Designed to teach the scientific techniques of progressive, full body stretching and relaxation to enhance joint mobility and general fitness. Older adult students participate using a floor mat or chair. R 99

KNES 6X 0/0/1 or 1.5 or 2 or 3 or 4/0
PHYSICAL FITNESS (EI)
Instruction and practice for older adults in the techniques for developing, maintaining and improving physical fitness, emphasizing strength, flexibility, aerobic power and neuromuscular integration (formerly PE 6X). R 99

KNES 14X 0/0/1 or 1.5 or 2 or 3/0
BODY RHYTHMICS (EI)
A fitness program using dance exercises which are performed to a variety of musical rhythms (formerly PE 14X). R 99

KNES 14XA 0/0/1 or 2 or 3/0
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 (formerly PE 14XA). R 99

KNES 29XA
0/.25 or .5 or 1/.25 or .5 or 1/0
BEGINNING TAI CHI CH'UAN (EI)
Tai Chi Ch'uan instruction will include movements from the 30 forms in the first section and discussion of the Yin-Yang principle of opposing actions. Includes discussions of the history and philosophy of Tai Chi Ch'uan (formerly PE 29XA). R 99

KNES 29XB
0/.25 or .5 or 1/.25 or .5 or 1/0
ADVANCED TAI CHI CH'UAN (EI)
Recommended Preparation: KNES 29XA
Includes Tai Chi Ch'uan movements from the 78 forms in the second and third sections and review of the 30 forms in the first section. Includes discussions of the history and philosophy of Tai Chi Ch'uan and the techniques and sequence of forms (formerly PE 29XB). R 99

KNES 35XA 0/0/1 or 1.5 or 2 or 3/0
BEGINNING CHAIR EXERCISES (EI)
Enables the older adult to practice the physical techniques necessary to maintain or improve physical fitness necessary for daily living activities. Designed for the person with a beginning level of fitness (formerly PE 35XA). R 99

KNES 35XB 0/0/2 or 3/0
INTERMEDIATE CHAIR EXERCISES (EI)
Enables the older adult to practice physical techniques necessary to maintain and improve physical fitness necessary for daily living activities (formerly PE 35XB). R 99

KNES 37X 0/0/1 or 2/0
BALANCE AND MOBILITY TRAINING (EI)
Adopts a multidimensional approach to balance-related problems. Activities will target specific balance problems in a challenging environment (formerly PE 37X). R 99

KNES 44X 0/0/1 or 1.5 or 2 or 3/0
AQUATIC FITNESS TRAINING (EI)
Designed to develop and maintain physical fitness through exercises in the water. Emphasis will be placed on strengthening, cardiovascular, and flexibility exercises (formerly PE 44X). R 99

KNES 65X 0/0/1 or 2 or 3/0
PILATES CONDITIONING (EI)
A non-impact exercise program based on the principles of Pilates. Designed for older adults to maintain health by adapting exercise routines and maintain physical strength, coordination and balance. Pilates increases flexibility and develops proper body alignment. Increases stability and helps to prevent injury, enabling the student to maintain optimum health. R 99

KNES 84X 0/0/1 or 1.5 or 2/0
PHYSICAL FITNESS YOGA (EI)
Investigation and practice of the principles of physical yoga. Emphasis is on exercises for improved body alignment, joint flexibility, muscle tone and breathing (formerly PE 84X). R 99

KNES 299 .5-4/.5-4/.5-9/.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 1

Emeritus Marine Science Technology

MST 299 .5-4/.5-4/.5-9/.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 1

Emeritus Music

MUS 19X 0/3/0/0
INTRODUCTION TO OPERA (EI)
Introducing the older adult to techniques used by major composers such as Gluck, Mozart, Rossini, Donizetti, Bellini, Verdi, Wagner, and Puccini who have shaped Western opera. R 99

MUS 20X 0/3/0/0
FOR THE LOVE OF MUSIC (EI)
Introduction to music history for the older adult. Fundamentals of musical composition and major composers that have shaped Western musical developments are studied. R 99

MUS 29X 0/3/0/0
WOMEN, MUSIC AND SOCIETY (EI)
Historical and societal survey of women musicians and composers from the Middle Ages to the present. Deals with a historical view of women's place as creative and representative artists. Societal and political influences on women composers. R E 99

MUS 34X 0/.5 or 1/.5 or 1/0
MEN'S AND WOMEN'S CHORAL: BARBERSHOP (EI)
Choral ensemble of male and female voices specializing in rehearsal and performance of barbershop harmony. Special attention will be given to note values, basic rhythms, ear training and diction. R 99

MUS 80X 0/.5 or 1/.5 or 1/0
VOICE AND RHYTHMS (EI)
Emphasizes vocal techniques, including tone production, breath control, and pronunciation, as well as music literature. Performance at end of the semester. R 99

MUS 201 1/3/0/0
MUSIC FUNDAMENTALS (EI)
Overview of music fundamentals including rhythm and pitch notation, major and minor key signatures, intervals, chord structures, and sight reading. R E 3

MUS 290X 0/.5 or 1/.5 or 1/0
CHORAL ENSEMBLE (EI)
Choral singing for the older adult emphasizing choral literature. Development of ensemble through correct singing and vocal production. R 99

MUS 295X 0/.5/.5/0
REHEARSAL AND PERFORMANCE INSTRUMENTAL (EI)
Recommended Preparation: Previous instrumental training & demonstrated proficiency
Preparation, study, and performance of orchestra concert repertoire. Designed for the older adult interested in orchestral performance. R 99

MUS 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Philosophy

PHIL 230X 0/1 or 2/0/0
INTRODUCTION TO PHILOSOPHY (EI)
Investigates many of the major philosophical themes within the Western tradition. Themes covered include the nature of self, free will and determinism, the ground and nature of human knowledge, the nature of ethics, aesthetics and the nature of political philosophy. Older adults cultivate the skills of critical thinking and rational discourse. R 99

PHIL 231X 0/1 or 2/0/0
HISTORY OF FREE THOUGHT IN WESTERN WORLD (EI)
History of free thought consisting of the heterodox religious systems and secular philosophies that have appeared in opposition to the Judaeo-Christian tradition in the Western world from the Classical Age of Greece and Rome to the present. Older adults will study deism, pantheism, agnosticism, atheism as well as multicultural religious philosophical systems and beliefs. R 99

PHIL 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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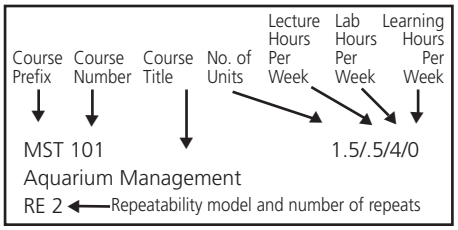

Emeritus Photography

PHOT 40X 0/-5 or 1/1 or 2/0
BEGINNING DIGITAL SHOW PRESENTATIONS (EI)
Production of digital visual and audio presentations. Discussion and demonstration of digital slide shows. Designed for the older adult. R 99

PHOT 41X 0/1/2/0
DIGITAL SHOW PRESENTATIONS - INTERMEDIATE(EI)
Recommended Preparation: PHOT 40X
Covers the production of digital, visual and audio presentations. Includes digital photography, downloading music, scriptwriting, narration, and transitions using computer software to construct presentations. Designed for the older adult interested in photography and multimedia. R 99

PHOT 50XA 0/.5 or 1/1 or 2/0
BEGINNING DIGITAL PHOTOGRAPHY (EI)
General view of digital photography, equipment, and techniques, cameras and care. Study of the important element of composition and creative aspects of photography. Includes use of memory cards, basic computer operation, downloading, cataloging, and other computer-based functions. Designed for the older adult. R 99

PHOT 50XB 0/.5 or 1/1 or 2/0
INTERMEDIATE DIGITAL PHOTOGRAPHY (EI)
Recommended Preparation: PHOT 50XA
Includes portraits, night photography, flash- and-fill technologies, digital media enhancement, and the use of filters. The older adult will also learn the basic principles of judging and evaluating photographs. R 99

PHOT 59XA 0/1/2/0
BEGINNING COLOR PRINTING (EI)
Recommended Preparation: PHOT 50XA
Darkroom and digital techniques for making color prints from color negatives, slides and digital cameras using related color printing equipment. Operation of enlargers, and processing prints using automatic processor, tube and electronic methods. Finishing prints for presentation including retouching and matting. R 99

PHOT 59XB 0/1/2/0
ADVANCED COLOR PRINTING (EI)
Recommended Preparation: PHOT 59XA
Advanced and innovative techniques of darkroom and digital procedures used in color printing. Related topics of photography and printing will supplement laboratory work. R 99

PHOT 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Political Science

PS 214 .5 or 1/1 or 2/0/0
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

Pending State Approval
PS 214X 0/1 or 2/0/0
CURRENT ISSUES IN GOVERNMENT (EI)
Exploration of current issues and events on global, national, and local levels. Problem areas include crime, economics, social services loads, environment, terrorism, and conflicts. Focuses on the impact of these events on the lives of older adults.

PS 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Spanish

SPAN 230 1/2/0/0
BEGINNING PRACTICAL SPANISH (EI)
Basic fundamentals of Spanish for practical application. Includes reading, comprehension, speaking, and writing. Emphasis will be placed on development of conversational skills. R E 3

SPAN 230X 0/2/0/0
BEGINNING PRACTICAL SPANISH (EI)
Basic fundamentals of Spanish for the older adult. Includes reading, comprehension, speaking, and writing. Emphasis will be placed on development of conversational skills. R 99

SPAN 231 1/2/0/0
INTERMEDIATE PRACTICAL SPANISH (EI)
Recommended Preparation: SPAN 230
Communicative competence in practical Spanish. Focuses on listening, comprehension, speaking, reading and writing. R E 3

SPAN 231X 0/2/0/0
INTERMEDIATE PRACTICAL SPANISH (EI)
Recommended Preparation: SPAN 230X
Communicative competence in practical Spanish for the older adult. Focus is on listening, comprehension, speaking, reading, and writing. R 99

SPAN 232 1/3/0/0
ADVANCED PRACTICAL SPANISH (EI)
Recommended Preparation: SPAN 231
Designed to develop fluency in Spanish. The emphasis is on expression and conversation in Spanish. R E 3

SPAN 232X 0/2/0/0
ADVANCED PRACTICAL SPANISH (EI)
Recommended Preparation: SPAN 231X
Designed to develop fluency in Spanish for the older adult. The emphasis is on expression and conversation in Spanish. R 99

SPAN 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Special Services

SPS 145X 0/3/0/0
BEGINNING LIPREADING AND HEARING CONSERVATION (EI)
Enables students to develop and practice lipreading skills necessary for social functioning. Presents information designed to help the student better understand their own hearing loss. R 99

SPS 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Theatre Arts

TA 2X 0/1/1/0
BEGINNING SCENE STUDY (EI)
Concentrates on scene study, characterization and ensemble performance. Works towards development of method acting. R 99

TA 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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Emeritus Women's Studies

WS 299 .5-4/.5-4/.5-9/.5-9
SPECIAL TOPICS
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District Administrators

Bramucci, Robert (2008)
Vice-Chancellor, Technical and Learning Services
B.S., University of Memphis, Tennessee
M.A.P., University of Little Rock, Arkansas
Ph.D., Washington State University, Washington

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M.B.A., Oakland University, Michigan
Ph.D., Union Institute and University, Ohio

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???Deputy Chancellor

Saddleback College Administrators

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McDonald, James T. (1971-1993)
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McFarland, William L. (1983-2003)
Professor Emeritus, Advanced Technology and Applied Science

McLendon, Curtis L. (1977-2010)
Professor Emeritus, Mathematics, Science, and Engineering

Messner, Carolann M. (1977-2006)
Professor Emeritus, Fine Arts

Meyer, Thomas S. (1971-2007)
Professor Emeritus, Mathematics, Science, and Engineering

Meyn, Virginia M. (1986-1998)
Professor Emeritus, Liberal Arts

Minch, John A. (1972-1994)
Professor Emeritus, Mathematics, Science, and Engineering

Miraglia, Terence J. (1969-2007)
Professor Emeritus, Mathematics, Science, and Engineering

Mitchell, Melvin E. (1968-1992)
Professor Emeritus, Social and Behavioral Sciences

Moon, Thomas B. (1983-2002)
Professor Emeritus, Advanced Technology and Applied Science

Morgan, Thomas V. (1973-2004)
Professor Emeritus, Fine Arts

Morris, Josephine H. (1987-2010)
Professor Emeritus, Health Science and Human Services

Nelson, Calvin L. (1969-2004)
Professor Emeritus, Mathematics, Science, and Engineering

Nicolson, Sheryl A. (1980-2005)
Professor Emeritus, Social and Behavioral Sciences

Olson, Robert W. (1968-2002)
Professor Emeritus, Social and Behavioral Sciences

Otta, William E. (1968-2002)
Professor Emeritus, Social and Behavioral Sciences

Pettengill, Robert P. (1976-1993)
Professor Emeritus, Business Science

Pierce, Mary Lou (1983-1994)
Dean Emeritus, Mathematics, Science, and Engineering

Potratz, Richard A. (1975-2009)
Professor, Emeritus, Counseling Services and Special Programs

Prendiville, Margaret B. (1985-1993)
Professor Emeritus, Health Science and Human Services

Reyes, Raymond (1998-2004)
Associate Professor Emeritus, Social and Behavioral Science

Rhodes, Lee W. (1968-1988)
Professor Emeritus, Mathematics, Science, and Engineering

Rice, Linda L. (1968-1995)
Professor Emeritus, Business Science

Riley, William J., III (1980-2010)
Professor Emeritus, Fine Arts

Robinson, Terrill L. (1978-2010)
Professor Emeritus, Emeritus Institute

Roberts, G. Joyce (1981-1987)
Professor Emeritus, Health Science and Human Services

Robison, Shelba J. (1976-2003)
Professor Emeritus, Liberal Arts and Learning Resources

Roelen, Jay (1968-1995)
Professor Emeritus, Physical Education and Athletics

Rogers, Phil (1977-1993)
Professor Emeritus, Mathematics, Science, and Engineering

Runyan, Michael G. (1977-2008)
Professor Emeritus, Liberal Arts and Learning Resources

Ryan, Patricia K. (1972-1994)
Professor Emeritus, Health Science and Human Services

Shaver, Karen E. (1988-1998)
Professor Emeritus, Counseling Services and Special Programs

Sherrer, Betty J. (1969-1998)
Professor Emeritus, Physical Education and Athletics

Smith, Maureen F. (1981-2002)
Professor Emeritus, Business Science

Smolen, Stephen A. (1990-2005))
Professor Emeritus, Liberal Arts and Learning Resources

Sneed, Richard (1986-1993)
Chancellor Emeritus

Spidell, Dorothy K. (1968-1983)
Professor Emeritus, Library/Media Services

Stavro, Beverly J. (1986-1989)
Associate Professor Emeritus, Health Science and Human Services

Stevens, Kay L. (1990-2005)
Professor Emeritus, Health Science and Human Services

Stevens, Roy C. (1968-1999)
Professor Emeritus, Physical Education and Athletics

Stuetz, Richard E. (1969-1999)
Professor Emeritus, Physical Education, and Athletics

Surface, Milton B. (1968-1986)
Professor Emeritus, Social Sciences

Swartzbaugh, Jack A. (1968-1999)
Professor Emeritus, Counseling Services and Special Programs

Swearingen, Kenneth D. (1976-1999)
Professor Emeritus, Physical Education and Athletics

Tash, Steven J. (1979-2004)
Professor Emeritus, Liberal Arts and Learning Resources

Thorpe, James F. (1968-1995)
Professor Emeritus, Mathematics, Science, and Engineering

Titus, David B. (1990-2010)
Professor Emeritus, Advanced Technology and Applied Science

Valencic, Joseph J. (1979-2004)
Professor Emeritus, Mathematics, Science, and Engineering

Victor, Richard E. (1990-2004)
Professor Emeritus, Liberal Arts and Learning Resources

Vincenzi, Jean M. (1968-1990)
Professor Emeritus, Mathematics, Science, and Engineering

Waian, Lee B. (1979-2002)
Professor Emeritus, Advanced Technology and Applied Science

Walker, Don A. (1970-1992)
Professor Emeritus, Mathematics, Science, and Engineering

Walker, H. Lee (1971-2004)
Professor Emeritus, Liberal Arts and Learning Resources

Watkins, Peggy (1989-2007)
Professor Emeritus, Mathematics, Science, and Engineering

Watkins, Ray E. (1977-2007)
Professor Emeritus, Mathematics, Science, and Engineering

Weisgerber, William H. (1973-2009)
Professor, Emeritus, Business Science

Wells, Lynn K. (1975-2004)
Professor Emeritus, Fine Arts

Whitt, Terri (1976-2010)
Professor Emeritus, Health Science and Human Services

Williams, William M. (1968-1993)
Dean Emeritus, Social and Behavioral Sciences

Wilson, Richard C. (1978-2003)
Professor Emeritus, Health Science and Human Services

Wrightsman, Ruth A. (1988-2006)
Professor Emeritus, Mathematics, Science, and Engineering

Yates, James D. (1980-2002)
Professor Emeritus, Business Science

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.