## Saddleback Community College
### 2016-2017 Academic Calendar

#### Fall Semester 2016
- Instruction Begins: August 22
- Labor Day Observance - classes not in session: September 5
- Mid-Semester Instruction begins: October 17
- Last day to petition for Fall Graduation: November 1
- Veterans Day Observance - classes not in session: November 11
- Thanksgiving Observance - classes not in session: November 24-27
- Final Exams: December 12-18
- Winter Break: December 19 - January 16

#### Spring Semester 2017
- First day applications accepted for New and Former Students: September 1
- Martin Luther King Day Observance - classes not in session: January 16
- Instruction Begins: January 17
- Presidents' Day Observance - classes not in session: February 17-20
- Last day to petition for Spring graduation: March 1
- Spring Recess - classes not in session: March 19 - 25
- Final Exams: May 19 - 25
- Commencement - Saddleback College: May 26

#### Summer Session 2017
- Memorial Day Observance - classes not in session: May 29
- Instruction Begins: May 30 - August 12
- Last day to petition for Summer graduation: July 1
- Independence Day Observance - classes not in session: July 4

*There are many late-starting, shorter length classes. Please consult the schedule of classes for starting and ending dates, and other important dates specific to each term.*

### NOTICE
The information contained in this publication describes the anticipated programs, courses, rules, regulations and fees of Saddleback College. These are subject to modification at any time to accommodate changes in resources or educational plans of the South Orange County Community College District. This publication does not constitute a contractual commitment.
# Tables of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Orange County Community College District</td>
<td>3</td>
</tr>
<tr>
<td>Saddleback College</td>
<td>4</td>
</tr>
<tr>
<td>Administration and Academic Divisions</td>
<td>5</td>
</tr>
<tr>
<td>Institutional Student Learning Outcomes (SLOs)</td>
<td>7</td>
</tr>
<tr>
<td>Informacion en Espanol</td>
<td>8</td>
</tr>
<tr>
<td>Admission Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Matriculation Services</td>
<td>10</td>
</tr>
<tr>
<td>Registration for Classes</td>
<td>13</td>
</tr>
<tr>
<td>Student Fees/Refunds/Credits</td>
<td>14</td>
</tr>
<tr>
<td>Student Activities/College Life</td>
<td>21</td>
</tr>
<tr>
<td>Students’ Rights and Responsibilities</td>
<td>23</td>
</tr>
<tr>
<td>Academic Regulations</td>
<td>32</td>
</tr>
<tr>
<td>Credit by Exam</td>
<td>37</td>
</tr>
<tr>
<td>Honors Program</td>
<td>36</td>
</tr>
<tr>
<td>Other Educational Opportunities</td>
<td>45</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>46</td>
</tr>
<tr>
<td>Degrees, Certificates and Awards</td>
<td>51</td>
</tr>
<tr>
<td>Articulation/Transfer Patterns</td>
<td>157</td>
</tr>
<tr>
<td>Announcement of Courses</td>
<td>167</td>
</tr>
<tr>
<td>Emeritus</td>
<td>325</td>
</tr>
<tr>
<td>Adult Education</td>
<td>332</td>
</tr>
<tr>
<td>Faculty</td>
<td>334</td>
</tr>
</tbody>
</table>
South Orange County Community College District

28000 Marguerite Parkway, Mission Viejo, California 92692 • 949-582-4999 • www.socccd.edu

Vision
South Orange County Community College District will be a leader in exemplary teaching and learning, student success and community partnership.

Mission
South Orange County Community College District provides a dynamic and innovative learning environment dedicated to student success and economic growth of the region.

2014-2020 District-wide Goals
1. SOCCCD will foster an environment characterized by creativity, innovation, respectful interactions and collaboration.
2. SOCCCD will promote students’ success by enhancing the teaching and learning environment.
3. SOCCCD will advance economic and workforce development through regional partnerships with educational institutions and industry and by strengthening career technical education.
4. SOCCCD will strengthen long-term financial health and institutional effectiveness through integrated planning and resource allocation.

Board of Trustees

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Kim McCord
Executive Director
Fiscal Services/Comptroller
President's Message

Congratulations on choosing Saddleback College first. Whether your plans include transferring to a four-year college or university, training for a career, or acquiring new skills, attending Saddleback first is a smart choice.

Starting your higher education at Saddleback is a good decision for a variety of reasons.

Did you know that:

- In 2016, 3,500 of our students transferred to four-year colleges and universities including UCLA, UC Berkeley, UC Irvine, San Diego State University, CSU Fullerton, and USC, to name a few.
- The average lifetime earnings of a community college graduate with an associate degree is $1.6 million -- $400,000 more than for a high school graduate.
- Students who earn a degree or certificate nearly double their earnings within three years.

Saddleback students also have access to a wide range of resources to help them succeed in their studies. Personal tutoring services are offered in our Learning Resource Center and mathematics student lounge. Our student services programs offer a full range of counseling, career planning and job placement services, and assistance for students with disabilities. On-campus childcare, a fully-staffed health center, financial aid, and services for veterans and re-entry students are available.

Students often find that their college experience is enriched when they participate in activities outside the classroom. I encourage all students to get involved in a campus activity, whether they participate in athletics or the performing arts, or join a club and attend the activities hosted by our associated student government and student development office. Find something that interests you, and get involved!

Indeed, choosing Saddleback first was a wise choice, and I commend you for your initiative in attaining your higher education goals. Welcome to the Saddleback College family!

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

Office of the President
President
Office of Instruction
Vice President
Office of Student Services
Vice President
Admissions, Records and Enrollment Services
Dean
Student Development
Interim Director
Financial Aid
Interim Director

Office of the President (949) 582-4722
President Dr. Tod A. Burnett
Office of Instruction (949) 582-4795
Vice President Dr. Kathy Werle
Office of Student Services (949) 582-4566
Vice President Dr. Juan Avalos
Admissions, Records and Enrollment Services (949) 582-4555
Dean
Christian Alvarado
Student Development (949) 582-4616
Interim Director Erylnne Ballo
Financial Aid (949) 582-4860
Interim Director Christian Alvarado

Academic Divisions

Advanced Technology and Applied Science
(949) 582-4541
Dean
Anthony Teng
Architectural Drafting
Automotive Technology
Computer Maintenance Technology
Cosmetology
Drafting Technology
Ecological Restoration
Electronic Technology
Environmental Studies
Family and Consumer Sciences

Kinesiology and Athletics
(949) 582-4545 - KNEA
(949) 582-4547 - ATHL
Dean
Tony Lipold
Dance
Health Intercollegiate Athletics
Kinesiology

Liberal Arts
(949) 582-4788
Dean
Dr. Kevin O'Connor
English
English as a Second Language
International Languages
Humanities

Mathematics, Science and Engineering
(949) 582-4820
Dean
Art Nitta
Astronomy
Biological Sciences
Chemistry
Computer Science
Engineering
Geology
Marine Science
Mathematics
Physics

Online Education and Learning Resources
(949) 582-4397
Dean
Dr. Marina Aminy
Library
LRC - Tutoring

Social And Behavioral Science
(949) 582-4733
Dean
Dr. Cadence Wynter
Anthropology
Child Development and Education
Economics
Education
Ethnic Studies
Geographic Information Systems
History
Political Science
Psychology
Social Science
Women's & Gender Studies

Transfer, Career and Special Programs
(949) 582-4619
Interim Dean
Dr. Georgina Guy
Adapted Kinesiology
CalWORKS
Career Center
EOPS
EOIC/CARE

Economic & Workforce Development and Business Science
(949) 582-4773
Dean
Director, Economic & Workforce Development
John Jaramillo
Israel Dominguez
Accounting
Administrative Assistant
Business
Computer and Information Management
Real Estate

Community Education, Emeritus Institute and K-12 Partnerships
(949) 582-4326
Dean
Director of Emeritus Institute
Dr. Estella Castillo-Garrison
Daniel Predoehl

Counseling Services
(949) 582-4572
Dean
Penelope Skaff
Articulation
Counseling
General Counseling
Matriculation

Fine Arts and Media Technology
(949) 582-4747
Dean
Bart McHenry
Art
Cinema/TV/Radio
Entertainment & Theatre Arts
Music
Photography
Speech
Theatre Arts

Health Sciences and Human Services
(949) 582-4701
Dean
Assistant Dean/ Director of Nursing
Dr. Donna Rane-Szostak
Dr. Diane Pestolesi
American Sign Language
Emergency Medical Technology
Health Sciences
Health Information Technology
Human Services
Insurance Billing
Medical Assistant
Medical Lab Technician
Mental Health
Nursing
Paramedic
Phlebotomy

Erylnne Ballo
(949) 582-4860
Christian Alvarado
Vision, Mission, Values of Saddleback College

**Vision**
Saddleback College will be the first choice of students who seek a dynamic, innovative, and student-centered postsecondary education.

**Mission**
Saddleback College enriches its students and the south Orange County community by providing a comprehensive array of high-quality courses and programs that foster student learning and success in the attainment of academic degrees and career technical certificates, transfer to four-year institutions, improvement of basic skills, and lifelong learning.

**Values**
Saddleback College embraces:

- **Commitment**
  We commit to fulfilling our mission to serve the south Orange County community.

- **Innovation**
  We anticipate and welcome change by encouraging innovation and creativity.

- **Excellence**
  We dedicate ourselves to excellence in academics, student support, and community service.

- **Academic Freedom**
  We endorse academic freedom and the open exchange of ideas.

- **Collegiality**
  We foster a climate of integrity, honesty, and respect.

- **Sustainability**
  We promote environmental sustainability and use our resources responsibly to reduce our ecological impact.

- **Success**
  We place our highest priority on student learning and delivering comprehensive support for student success.

- **Inclusiveness**
  We cultivate equity and diversity by embracing all cultures, ideas, and perspectives.

- **Partnership**
  We strive to develop strong and lasting partnerships among students, faculty, staff, and the community.

- **Global Awareness**
  We recognize the importance of global awareness and prepare our students to live and work in an increasingly interconnected world.
Saddleback College

Institutional Student Learning Outcomes (ISLOs)

Preamble

Saddleback College's primary mission is to foster learning and student success. Students should expect to develop knowledge, skills and abilities across four broad areas as a result of their overall experience at Saddleback College. The broad areas are identified by the Institutional Student Learning Outcomes (ISLOs) listed below:

I. Effective Communication
Students completing a degree or transfer program at Saddleback College will be able to:
• Demonstrate the ability to understand, evaluate, and analyze readings from a variety of texts and to apply that ability in academic, personal, and professional contexts.
• Demonstrate the ability to clearly express themselves and the knowledge they have attained in various forms of writing.
• Demonstrate the ability to orally communicate ideas to others in a clear, coherent, and structured fashion when speaking in one or more of the following modes: interpersonally, in small group settings, or in public presentations.

II. Intellectual and Practical Skills
Students completing a degree or transfer program at Saddleback College will be able to:
• Demonstrate competence in fundamental computing and information technology.
• Demonstrate competence in scientific and quantitative reasoning necessary for informed judgment and decision making.
• Conduct effective research, including the identification, evaluation, synthesis, and responsible use of sources and information.
• Analyze information and ideas independently and logically in order to arrive at reasoned, meaningful, and creative conclusions.
• Work with others to develop creative, logical, and reasoned solutions to problems.
• Develop cognitive, physical, and affective skills which will afford students the opportunity to be well-rounded individuals.

III. Community/Global Consciousness and Responsibility
Students completing a degree or transfer program at Saddleback College will be able to:
• Demonstrate knowledge of cultural diversity and awareness of multiple perspectives in the U.S. and globally.
• Demonstrate the ability to effectively communicate and interact with others in academic, personal, and professional contexts.
• Demonstrate awareness of the necessity for social responsibility and accountability of citizenship in a democratic society.
• Demonstrate an awareness of the necessity for ethical conduct in academic, personal, and professional contexts.

IV. Breadth of Subject Area Knowledge
Students completing a degree or transfer program at Saddleback College will be able to:
• Describe the scope, key principles, and defining framework of the discipline of study within the natural sciences and mathematics, including an understanding of the methods of scientific inquiry.
• Describe the scope, key principles, and defining framework of the discipline of study within the arts and humanities in order to understand the rich history of human knowledge, discourse, and achievements.
• Describe the scope, key concepts, and defining framework of the discipline of study within the social and behavioral sciences in order to understand the complexities of social interactions and human experiences.
Información en Español

La información se ha traducido al español para que la comunidad hispanohablante pueda informarse acerca del proceso de matriculación en Saddleback College. Estudiantes que necesiten ayuda o tengan preguntas, favor de llamar a la Oficina de Admisión y Registros (Admissions and Records) al 949-582-4555 o a la Oficina de Asesoría (Counseling Services) al 949-582-4572. Estas oficinas están en el Edificio de Servicios para Estudiantes.

Información Para Matricularse

ELEGIBILIDAD PARA ASISTIR A UNA UNIVERSIDAD COMUNITARIA
- INSCRIPCIÓN REGULAR: Tener 18 años de edad o ser graduado/a de la escuela secundaria.
- INSCRIPCIÓN CONCURRENTE: Estudiantes desde el 9 al 12 año de la escuela secundaria, podrán matricularse en clases recomendadas por el/la director/a de su escuela, pero que no excedan 11 unidades. Si desea más información, consulte con la Oficina de Admisión y Registros.
- NO-RESIDENTES: Son personas que han permanecido menos de un año en California antes del inicio del semestre o personas que mantienen visa de inmigración las cuales impiden el establecimiento de residencia. Para mayor información, comuníquese con la Oficina de Residencia al 949-582-4555.

Debido a la legislación (California AB 540) algunos/as estudiantes que no tengan los documentos de residencia y que se hayan graduado de una escuela secundaria de California, podrán calificar para una "exención" de la matrícula de no-residente. Por favor llame al 949-582-4555 para obtener más información acerca de esta exención.

FECHAS DE INSCRIPCIÓN: 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 febrero - otoño (fines de agosto)
- 1 de septiembre - primavera (principios de enero)
- 1 de febrero - verano (fines de mayo)

COMO HACER UNA CITTA PARA INSCRIBIRSE: Estudiantes que asistan por primera vez a la universidad y los que ya hayan asistido y regresan, deben completar una solicitud. La Oficina de Admisión y Registros documentará su información y le dará un permiso con la fecha y la hora para que se inscriba a través del Internet. Es muy importante que asista a clases el primer día.

COMO AÑADIR Y CANCELAR CLASES: Estudiantes pueden añadir clases hasta el día antes de su comienzo. Una vez que la clase haya empezado o que no tenga cupo, estudiantes deberán pedirle permiso al 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 del Internet o en persona antes de la fecha límite que tenga el código APC. Deberá pagar en el momento que se inscribe.

Nota: Es de suma importancia que el/la estudiante lea el horario de clases para informarse de las fechas exactas para cancelar clases. Puede usar el Internet para cancelarlas.

Cobros

El día en que el/la estudiante se inscriba, debe pagar por todos los servicios tales como: la inscripción, seguro médico, excursiones y estacionamiento.

COBRO DE INSCRIPCIÓN: Se cobrará lo siguiente:
- No-Residentes: $200.00 (por unidad) y en adición $46.00 por unidad.
- Al no-residente que es ciudadano/a/residente extranjero/a adicionalmente se le cobrará $42.00 por uso de facilidades (por unidad) y $54.00 (sin devolución), para procesar su solicitud al tiempo de solicitar. Estos cobros son para estudiantes internacionales.
- Residentes: Al residente de California se le cobrará $46.00 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 $40 por semestre, $25 por la sección de verano, o $80 por un permiso anual que incluye: el semestre de otoño, la primavera y el verano. Permiso para motos cuesta $20 por semestre, $10 por la sección de verano, o $40 por un permiso anual. El permiso anual solamente se puede de comprar durante el otoño. Siempre que hay que colocar su permiso dentro de su coche, colgándolo en el espárrago retrovisor.

COBRO DE SERVICIOS DE SALUD: Debe pagar $19 por semestre (en otoño y primavera) para cubrir servicios de salud personal. El costo en el semestre de verano es de $16 y les permite a estudiantes que aprovechen varios servicios médicos. (Este servicio se cobrará aunque tome "0 unidaddes). Cobros de servicios de salud están sujetos a cambios.

Exámenes de inglés y matemáticas

La Oficina de Matriculación (Matriculation Office) 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 y análisis de reporte de calificaciones de otras instituciones. Está ubicada en el edificio Village, salón B. Su número de teléfono es 949-582-4970.

Enfermería/Centro de salud

El Centro de Salud de Saddleback College ofrece al/a la estudiante varios servicios médicos y psicológicos. Tenemos un equipo de enfermeras/os, doctores/as, psicólogos/as y pasantes psicólogos que le ayudarán con su salud tanto física como emocional, para ayudarles a tener éxito tanto personal como educacional.

Se incluyen servicios limitados de 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. El Centro de Salud de Saddleback College cuenta con información de varios temas tales como asalto sexual y cómo reportarlo, etc. (California Education Code, Section 67385).

Las consultas médicas son gratis y los exámenes de laboratorio, vacunas y algunas medicinas son de bajo costo. Para obtener más información, llame al (949) 582-4606 o vaya a la página www.saddleback.edu/shc.

Ayuda Financiera

La Oficina de Asistencia Financiera en Saddleback College está designada para proveer asistencia económica a estudiantes que cumplen con los requisitos. Asistencia federal, estatal y fondos de fuentes privadas están disponibles. Estudiantes interesados en recibir ayuda financiera, primeramente deberán solicitar electrónicamente a través del proceso de FAFSA (Solicitud Gratuita de Ayuda Federal para Estudiantes). La dirección de su página electrónica es www.fafsa.gov, y tiene información en inglés y en español. La oficina está en el Edificio de Servicios para Estudiantes, salón SSC 106. El número de teléfono es 949-582-4860.

Programa de EOPS

El Programa de Servicios y Oportunidades de Educación Extendida (EOPS) sirve a personas que califican bajo varios requisitos, como: ser residente de California, ser de bajos recursos económicos, tener desventaja de no tener una educación formal, estar matriculado en doce o más unidades (tiempo completo), etcétera. Favor de comunicarse directamente con el program EOPS para mayor información sobre elegibilidad.

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

Servicios de Tutoría (LRC)

El programa de tutoría (LRC) proporciona servicios de tutorías/as gratuitas de diferentes cursos académicos para satisfacer las necesidades de cada persona. Hay instrucción individual y en grupo. LRC está situado en el segundo piso del edificio LRC (ex biblioteca) salón 212. Para más información, comuníquese al teléfono 949-582-4519.

Section 67385).
Admission Requirements

Eligibility for Admission
Saddleback College is one of two colleges in the South Orange County Community College District, which also includes Irvine Valley College. Students may apply to only one college but may register in classes at either or both colleges. (Please see College of Record)

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 two weeks prior to the start of the term. Students in grades 9-12 are limited to 11 units per semester; K-8 students are limited to 6 per semester. K-12 students are not permitted to enroll in Kinesiology (PE) classes.

Individuals holding valid non-immigrant visas, which federal law prohibits from enrolling in a course of study, are not admissible. 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: February 1
- Spring semester: August 1
- Summer session: February 1

College of Record
In the South Orange Community College District, your college of record is the one to which you have applied (Saddleback or Irvine Valley). Your college of records is where you complete all admission steps (application, orientation, assessment, advisement, academic plan); receive support services, such as Financial Aid, DSPS, EOPS; and plan to complete your educational goal. Should you need to discuss or change your college of record, please contact the Office of Admissions and Records.

California Residence Classification
The Office of Admissions and Records determines the California 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 California residency will be classified as a nonresident.

“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 residence 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, 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
- Students who are members of the armed forces of the United States who are stationed in this state on active duty, except those assigned to California for educational purposes
- Students who are eligible as covered individuals as defined in the Veterans Access, Choice and Accountability Act of 2014 (VACA Act) who are taking advantage of their Chapter 30 or 33 benefits.
- Spouses and dependents (natural or adopted children or stepchildren) of active members of the armed forces.
- Armed forces members remaining in the state following discharge
- Dependent of a 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
- Students who are under 20 years old and served by the California Foster Care system.
- Student who 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 949-582-4555 for more information.

Reclassification to Resident Status
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)
Saddleback College defines an “international student” as a student attending Saddleback College fulltime while on an F-1 student visa. Applications for admission to Saddleback College’s International Student Program are available online at www.saddleback.edu/iso and in the International Student Office. Prospective students may contact the International Student Office at 949-582-4637 or by e-mail at sc-iso@saddleback.edu.

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

1. Application for admission is available online beginning the following dates:
   - **Fall semester:** February 1
   - **Spring semester:** September 1
   - **Summer session:** February 1

2. A nonrefundable processing fee of $54 for the 2016-2017 academic year, required with the application form.

3. The International Student Supplement should be completed, signed by the applicant, and turned in to the International Student Office. The form can be found at www.saddleback.edu/iso.

4. English proficiency test requirement: Students whose native language is not English must take the TOEFL (Test of English as Foreign Language), STEP EIKEN, ITP or the IELTS. The TOEFL score must be a minimum of 470 (paper-based) or 52 (internet-based). The STEP EIKEN test must be passed at the grade 2 level. The ITP score must be a minimum of 4.0. The IELTS score must be a minimum of 4.5. The English proficiency test requirement may be waived for applicants who can demonstrate that they have successfully completed the equivalent to ENG 200 at Saddleback College. The course must be from a regionally accredited institution. Students who have attended at least 3 years and have graduated from a U.S. high school are not required to complete the English proficiency test requirement.

5. Academic records: Evidence of academic achievement equivalent to an American high school diploma or higher. The transcripts of the original records must be accompanied by a notarized English translation. In addition, international students who are in the U.S. as F-1 students must submit all of their academic records from the institutions they have attended in the U.S.

6. International Student Supplement completed and signed by the applicant. The form can be found at www.saddleback.edu/iso/admission-requirements-international-students.

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 page (i.e. name, photo, date of birth, etc), F1 visa, and form I-94 (both sides).

Upon acceptance to Saddleback College, international students are expected to:

1. Enroll in and complete a minimum of 12 each semester with a minimum 2.0 Grade Point Average (GPA). International students are allowed to register for only one online class each semester to apply towards the 12 unit requirement for full-time enrollment.
2. Purchase health insurance coverage: Saddleback College and the South Orange County Community College District require that all international students have a valid health insurance plan from the district-approved carrier during their entire course of study. Students must have health insurance coverage in order to enroll in classes. Health insurance information is available at www.saddleback.edu/iso and at the International Student Office.
3. Pay non-resident tuition fees in addition to all other applicable fees during their entire attendance at Saddleback College.

Saddleback College international students with F-1 visas may enroll in a maximum of 6.00 units at Irvine Valley College when certain classes are not offered at Saddleback College to maintain their fulltime enrollment. International students with F-1 visas from other schools may enroll concurrently at Saddleback College on a part-time basis not to exceed six units. Students should consult the International Student Office for more information. Applicants with other types of visas (not F-1) should apply online through the Office of Admissions and Records at www.saddleback.edu/admissions.

For additional information, contact the International Student Office at 949-582-4637 or sc-iso@saddleback.edu.

**Note:** International applicants are not admitted to impacted programs, which include the Nursing and Paramedic programs. Please consult the International Student Office for a complete list of impacted programs.

Under the Division of Enrollment Services, the International Student Office at Saddleback College oversees the recruitment, admission, and retention of international students. The International Student Office provides a wide range of services to international students including admission, assessment, orientation, home-stay and F-1 visa advising. In addition, the Office coordinates events on-campus to promote global awareness and cooperation. The International Student Program at Saddleback College is governed under the South Orange County Community College District and U.S. federal regulations.

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**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. Complete the Matriculation process including: Online, Orientation, Assessment, and Online Advisement.
Steps in the Matriculation Process

Who is Exempt from Matriculation
Students who have completed an associate degree (or higher), are concurrently enrolled at a 4-year college/university, or are enrolling in courses for non-academic, educational development are not required to complete matriculation.

Who is Required to Complete Matriculation

The Student Success Act (SB 1456) requires the completion of the matriculation process of first time college students and college students new to the district (SOCCCD). Saddleback College also requires all special admit High School Seniors to complete the matriculation process before enrolling in any courses.

Steps in the Matriculation Process

Matriculation is designed to assist students in achieving their educational goals at Saddleback College. The process includes Orientation, Assessment, Advisement/Ed Plan, and follow-up services. Students required to matriculate must complete the following steps prior to registering for classes:

1. **New Student 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 individual student information system, and to the procedures for registration.
2. Math and English Placement is used as an indicator to what course levels students should begin with an also clears prerequisites. Placement can be obtained by using one or more of the following methods:
   - **Assessment** may include, but is not limited to, information regarding the student's English and reading proficiency, math skills, and possible need for special services
   - **Alternative Evidence** - Students who have completed and passed a math and English course at another college/university or have taken and received a 3 or higher on the English and/or calculus AP exams can submit Alternative Evidence to complete this assessment step.

3. **Student Advisement/Ed Plan** assists students in determining their educational goals, plan their first semester schedule, and prepare a "First Semester Ed 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 and students on First Time Probation will be required to attend a probation workshop before they will be eligible to register. Early Alert notifications may be used to notify students of their academic standing each semester so they can seek assistance from the Division of Counseling Services. My Academic Plan (MAP) workshops may also be available as follow-up academic planning services.

Students must follow the Matriculation procedures and take their assessment exams at their school of record. All Saddleback College students are welcomed and encouraged to participate in the Matriculation process.

The Matriculation Office is located in Village 8-5. You may call the Matriculation Office at 949-582-4970 or visit our website at www.saddleback.edu/matriculation.

Retest Policy

**Reading:** Students may repeat the Reading assessment exam every three (3) months.
**English:** Students may retake the English assessment exam every three (3) months.
**English as a Second Language (ESL):** Students may retake the ESL assessment exam every three (3) months.
**Mathematics:** Students are allowed to retake the same level math assessment exam once every three (3) months. Students may take a different level math test with no waiting period.

Alternative Matriculation Services

Students may be referred to alternative services to complete the Matriculation Process if they indicate any of 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 Exam.**
2. They have a disability which creates educational or functional limitations that require academic accommodations.

Comprehensive Educational Plan

Students are required to complete a Comprehensive Educational Plan and have it approved by a counselor once they have completed 15 degree-applicable units or by the end of their third semester - whichever comes first. Failure to have a Comprehensive Ed Plan approved within this timeframe will result in a Comprehensive Plan (CP) hold which will delay registration. To be eligible for future course enrollment, the student must complete a Comprehensive Ed Plan.

Removing a CP Hold

A student with a Comprehensive Plan hold, notated as a CP in MySite, must complete a Comprehensive Educational Plan with a counselor to be eligible to enroll in future courses. A Comprehensive Ed Plan may be completed by contacting the Counseling Office at (949)582-4572 or visiting SSC 167 for a counseling appointment or MAP workshop.

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 a padlock symbol to the right of the course description in the online class schedule.

Students are responsible for meeting the prerequisite, corequisite, limitation on enrollment, or recommended preparation requirement prior to registering for any course with these restrictions. It's recommended that students clear all prerequisites a minimum of 2 weeks prior to their assigned registration time to avoid enrollment delays.
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) or to meet safety requirements.

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 the success in the target course.

How to Clear a Prerequisite
Students can clear their prerequisite requirement by completing any one of the following:

1. Complete an assessment exam at Saddleback College for English and/or math and place into the course above the prerequisite.
2. Complete the course(s) at Saddleback College with a satisfactory grade of “A,” “B,” “C,” or “P” (formerly CR). Note: Grade of “C” or lower is not satisfactory.
3. Provide transcripts showing the completion of an English and/or Math course from another college or university to the Matriculation Office if the course you are taking will count as Calculus AB or BC exams with a score of 3 or higher to clear a math prerequisite.
4. Provide a College Board AP score report with a 3 or higher on the English Composition/Language or Composition/Literature exam to clear an English prerequisite or Calculus AB or BC exams with a score of 3 or higher to clear a math prerequisite.
5. Provide acceptable evidence of an equivalent assessment exam administered at another accredited California community college. Students may clear prerequisites in English if the appropriate course placement is provided on their results. Math prerequisites may be cleared if the student took the MDTP (Math Diagnostic Testing Project) placement exam and their test level and score are provided in the results. Students must have the Matriculation Office evaluate all placement results for acceptance.

Submitting an English and/or math prerequisite evaluation request using alternative evidence:
Complete the Math and English Alternative Evidence Evaluation Form, attach your alternative evidence with course catalog description(s) and submit all documents to the Matriculation Office. Courses that have prerequisites other than English or math must be evaluated by the appropriate division office.

NOTE: Students should submit evaluations a minimum of two weeks prior to their registration date to avoid enrollment delays. Specific information regarding procedures, time lines, and transcript evaluation notification is available in the Matriculation Office or on our website. Courses offered in high school, college ESL courses or courses taken for “zero units” cannot be used to satisfy a math or English prerequisite.

Course Prerequisite Appeal Procedures
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 obtained in the division office of the target course. 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 enroll in the higher level class. If the appeal is denied, the student will not be eligible for the higher level course and will be dropped if prior enrollment was allowed.

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 and is currently inside the non-retesting period can take the Writing Sample Appeal. During the Writing Sample Appeal students will write an essay based on a prompt and passage provided by the Matriculation Office.

An Appeals Committee will meet and review the Writing Sample Appeal within five working days. If the appeal is approved, the student will be allowed to enroll in the higher level course. If the appeal is denied, the student will not be eligible for the higher level course and will be dropped if prior enrollment was allowed. Appeal results are final and placement cannot be appealed again. Dates and times of the Writing Sample Appeals are available in the Matriculation Office (Village 8-5) or online at www.saddleback.edu/matriculation.

Mathematics Appeal Process
A student who desires placement in a higher level mathematics course than resulted from the usual assessment process may complete an "Appeal Petition" in the Mathematics, Science, and Engineering Division Office, SM 334.

The following items must be included with the Appeal Petition:
1. The student's high school transcript.
2. College transcript and college catalog description of each mathematics courses on the transcript.
3. The Students Official Results from the appropriate Saddleback College mathematics assessment exam. Students seeking enrollment in MATH 353 must complete either the level 1 or level 2 mathematics placement exam. Those seeking enrollment in MATH 205 or 253 must complete either the level 2 or level 3 mathematics placement exam. Students who wish to enroll in MATH 7, 8, 10, 11, 122 or 124 must complete the level 3 placement exam. Students must complete the level 4 mathematics placement exam for all higher level math courses.
An Appeals Committee will meet to review the Appeal Petition and supporting documents within five working days. If the appeal is approved, the student will be allowed to enroll in the higher level course. If the appeal is denied, the student will not be eligible for the higher level course and will be dropped if prior enrollment was allowed. Appeal results are final and placement cannot be appealed again.

Student’s 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, AGB 126.

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 requisites as established by the Board in accordance with the above-referenced section of Title 5.

Enrollment Priorities
The South Orange County Community College District has established the following enrollment priority order when issuing registration times for students:
- **Priority** - student groups legislated to receive priority registration, as well as SOCCCD board-approved groups designated as priority.
- **First-time Freshmen** - students enrolled for the first time in college after completing high school or its equivalent. Registration times are based on the date the student completed their assessment, orientation, and academic plan (Matriculation). Earlier completers receive an earlier registration time. This category only applies for the Fall and Spring semesters, not the summer session.
- **Continuing** - continuing students in good academic standing with less than 100 completed units (not including basic skills) in the South Orange County Community College District. Registration times are assigned in descending order by completed units.
- **New/Returning** - students who have never enrolled in the district or are returning after one or more semesters of nonattendance. Registration times are assigned based on the date of application i.e. earlier applicants receive an earlier registration time.
- **Emeritus** - students in good standing who are enrolled only in Emeritus Institute classes
- **Low Priority** - students who meet any of the following conditions:
  - are required to complete matriculation but have not by the designated deadline date
  - have a non-qualifying educational goal
  - are on academic and/or progress probation for two consecutive semesters
  - have completed 100 or more degree applicable units district-wide (not including basic skills)
- **High School** - students concurrently enrolled in high school.

NOTE: New and Returning students are required to complete assessment, orientation, and an academic plan prior to the designated deadline in order to be eligible for the following groups: Priority, First-time Freshmen, or New/Returning.

Challenges to assigned registration times may be filed by appeal with the Office of Admissions and Records. Appeals are considered under very narrow circumstances and are reviewed.

Registration for Classes

Students register online or in person. Payment is due by the deadline stated on the Confirmation page at the end of the registration session. Once the semester has begun, payment for registration is due at the time of enrollment. After selecting classes and paying all required fees, registration is completed. Consult the Admissions and Records website at www.saddleback.edu/admissions for the most recent 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. (See Matriculation Services)

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. Students who apply online receive their registration permits by email.

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” above.

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 time at the MySite web portal. Registration times are determined by the number of units the student has completed within the South Orange County Community College District. Those who have already completed more than 80 units are given appointments toward the end of registration. Consult the Admissions and Records website at www.saddleback.edu/admissions for the most recent registration information.
on a case-by-case basis. Consult the Office of Admissions and Records for information about the challenge process.

Maintaining Student Contact Information
It is important for students to maintain current contact information, including the phone number and address in their college record. Information may be updated through the student's MySite account under "My Information." If the post office reports a forwarding address that the student has filed, the college records will automatically be updated to reflect that change.

Student Status:
- **Part-time:** Student taking fewer than 12 units
- **Full-time:** Student taking 12 or more units
- **Freshman/First year standing:** Student who has completed fewer than 30 units.
- **Sophomore:** Student who has completed 30 or more units
- **Graduate:** Student who has been awarded the Associate in Arts or Science degree or a higher degree by a regionally accredited college.

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 repeatability as determined by state regulations except in very narrow circumstances. 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 (APC) will be issued. Students are required to add the course on-line or in person by the Last Day to Add as noted 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 three withdrawals in a given course. Students may withdraw from courses online through MySite.

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:
- 20 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 instructor drops completed prior to the refund deadline are eligible for refund consideration. (See Student Fees/Refunds/Credits for further information regarding refunds.

Financial Aid recipients see the Financial Aid section of the catalog regarding Title IV repayment policy.

Student Fees/Refunds/Credits

All fees are subject to change

Associated Student Body (ASB) Stamp Fee
The $10 ASB stamp fee provides a variety of benefits to students and supports, as part of the total ASG budget, a variety of student programs and services, such as Athletics, Fine Arts, Scholarships, access to the ASG office, and many other student-sponsored activities. In purchasing the ASG Stamp you will also receive a FUND card valued at over $160 in discounts. The ASB fee is nonrefundable. The ASB stamp fee can be purchased online and in SSC 211, in the ASG Office.

Enrollment Fee
The Enrollment Fee is $46 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 on the Saddleback College campus (to include hybrid internet classes with either optional or mandatory on-campus components) are required by state law to pay $19 per regular semester and $16 for the summer session. The health fee entitles students to a variety of health services. (Please note, this is not a personal health insurance policy). The student health fee may be voluntarily paid by students taking off-campus or distance education classes who want to use these services. Health fees may be subject to change during the academic year.
b. The material is provided in lieu of other generally available but more expensive material which would otherwise be required.

Any materials not meeting these guidelines will be provided by the District to students at no cost to the student.

Parking Fees
Students who intend to park in a student lot must purchase a parking permit each semester. An annual permit which includes Fall, Spring, and Summer is available for purchase in the Fall only. Parking fees can be found on the college website in the Student Payment Office webpage under “Fees.”

Day parking permits can be purchased at any one of the yellow permit dispenser machines currently located at the Medical Center Drive campus entrance next to the flag pole; at the north end of parking lot 10, at lot 5A (Near Tennis Courts); and at parking lot 1. Timed metered parking is available at the north end of lot #9.

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
Transcripts: Students are entitled to two free transcripts and/or verifications. Additional copies are $3.00 per copy. Transcripts may be ordered online or in-person only. (The online system does not accommodate the two free transcripts.)

Emergency Transcripts: Emergency transcripts requests are available only through the online system and are mailed, sent electronically, or made available for pickup within 24 hours during normal business hours after request are received.

Saddleback College transcripts do not include grades from Irvine Valley College or any other institution. Students need to make separate requests to each college. Visit saddleback.edu/admissions/transcripts for more information.

Verifications of Enrollment: Verifications of enrollment may be downloaded free of charge through MySite. Choose MyInformation then choose Official Enrollment Verification.

Other types of verifications are $3.00 after the first two free transcripts or verifications.

Emergency Verifications: Emergency verifications are $5.00 in addition to the verification fee. Verifications may also be ordered by mail or in person. The Verifications Request Form may be downloaded from www.saddleback.edu/admissions/degree-and-enrollment-verification.

Mail requests to:
Saddleback College
Office of Admissions and Records Verification Unit
28000 Marguerite Parkway
Mission Viejo, CA 92692

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 asylum/refugee status or who are evaluated to have a financial hardship may be exempt from this fee.

Capital Outlay Fee
Students who are U.S. citizens but not California residents, as well as students who are not U.S. citizens, will be charged a capital outlay fee of $65 per unit. This is in addition to the $46 per unit enrollment fee and the $211 per unit non-resident tuition fee.

Students who are not U.S. citizens but can validate asylum/refugee status, or who have been evaluated to have a financial hardship, may be exempt from this fee.

Tuition Fees
Students who are U.S. citizens but not California residents, and students who are not U.S. citizens, will be charged a non-resident tuition fee of $211 per unit. This is in addition to the $46 per unit enrollment fee and the $65 per unit capital outlay fee.

Students who are not U.S. citizens but can validate asylum/refugee status, or who have been evaluated to have a financial hardship, may be exempt from this fee.

Non-Resident and Capital Outlay Fees
Exemption for Veterans and their Dependents
Effective July 1, 2015, veterans who are eligible for Veterans Administration (VA) education benefits and enroll in the college within 3 years of discharge from a period of active duty service of 90 days or more are exempt from paying non-resident fees and capital outlay fees. Dependents of veterans who are using these benefits are entitled to the same exemption. This exemption will remain in effect for each qualifying student as long as the student is continuously enrolled in classes.

Fees Payment Deadlines
During the registration period up to 10 days prior to the week beginning the first day of the semester, students adding classes.

During the registration period up to 10 days prior to the start of the semester, students adding classes.

Beginning 10 days prior to the start of the semester, online registration payment is by credit/debit card only and payment is due at the time of registration. During this time, students may pay by check or cash by coming to the Office of Admissions and Records to complete their registration. They will be sent to the Student Payment Office (SSC 208) to pay for their fees the same day.

Beginning the first day of the semester, students adding classes will not be dropped for nonpayment but will be responsible for their fee balance. A hold will be placed on student accounts for unpaid balances, preventing further registration or official transcript requests.

Students whose fees are being waived or paid for by financial aid must ensure that their fee waivers or aid is in place prior to their payment deadline.
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 always the student's responsibility to drop a class prior to the refund deadline date to ensure a refund.** Students who add or drop a class after the class' refund deadline dates are not entitled to a refund. Also, students who are dropped from a class by an instructor after the class' refund deadline date are not entitled to a refund. Students dropped from a class after the class' refund deadline date due to non-payment are not entitled to a refund. The only exception to this policy 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 online. To access refund forms on-line, go to [www.saddleback.edu/spo](http://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 online schedule at [saddleback.edu/cs](http://saddleback.edu/cs). 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.

**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 if 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, or if the class is cancelled by the college.

**Non-Resident Tuition Credits**
A request for credit of non-resident tuition may be made in any of the three 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 class(es) refund deadline date.

**Paying for Parking Fees**
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.

**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. Some textbooks may be rented or made available as e-books. 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)**
Saddleback College CalWORKs program is designed to assist students to develop the necessary skills, knowledge, and experience that will make them more marketable with employment after earning a certificate and/or college degree. Students are provided services such as academic, personal, career counseling, and work-study. For office hours or more information, call the CalWORKs office 949-582-4207 or visit [www.saddleback.edu/eops/calworks](http://www.saddleback.edu/eops/calworks).

**Campus Preview Tours**
Guided tours are available to any individual or group interested in viewing the campus. Reservations are necessary. Please call the Outreach Department 949-582-4218 to schedule a tour.

**Career & Re-Entry Center**
The Career & Re-Entry Center (CRC) includes: Career Guidance Services and Re-Entry Services. The CRC provides assistance, planning, and support for students and potential students. It is located in the Student Services Center, Room 140. Individual assistance is available by appointment. Career computer lab and library resources are available when groups or classes are not scheduled for visits. Additional services and resources are available on our website, visit [www.saddleback.edu/career](http://www.saddleback.edu/career). Appointments can be scheduled by calling 949-582-4575.

**Career Guidance Services** open to anyone who needs assistance with making a career decision, choosing a major, researching career demographics, or enrolling in a course that
requires career exploration. Counseling and Women's Studies 120 courses are available during the Summer, Fall and Spring semesters. Educational and occupational information is available in the computer lab and library to explore at the student's own pace. The resource materials in the computer lab and library include career information that describes duties and responsibilities of careers, future career trends, and majors. Additional resources include career technical education, college catalogs, scholarship resources, re-entry information, and online and traditional educational options that may lead to career or transfer. In addition, career assessment packages can be purchased at the CRC to support courses and student learning objectives. Computerized assessment systems that measure abilities, skills, personality and values with comprehensive demographic information and self-evaluation tools are available for free or at a nominal fee. Some assessments can only be taken with a referral from a counselor at Saddleback and a scheduled appointment to review the results. Career Counseling is available by appointment during the Spring and Fall semesters.

Re-Entry Services  (Women’s Resource Services) helps men and women who are searching for ways to return to school, change careers, or find new direction and support in their lives. The Re-Entry Services Program acts as a liaison for students which may include relationships with the Employment Development Department (EDD), inmate correspondence, international students, English as Second Language students, crisis intervention team, health services, and the Women’s Studies Department on campus. The program provides advisement and referrals to on-campus resources, finding a career direction, and an overall assessment of barriers that prevent a student from being successful in college. Additionally, it provides updated lists of low cost and sliding scale community resources and programs to address the student's needs. Workshops, support groups, and specialized Re-Entry scholarships are available for re-entry students. The program is particularly committed to expanding student awareness of opportunities for those who are underrepresented or returning to complete educational training as well as overcoming life barriers. Individual appointments are available and are recommended to be scheduled in advanced.

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 community 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 949-582-4592 or visit www.saddleback.edu/crd.

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 walk-in basis. Appointments are especially recommended well in advance of registration periods.

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. Students may also make an appointment online:
1. Go to the Saddleback College Home Page
2. Click on Student Success
3. Click on Counseling
4. Click on Make an Appointment, if you are a continuing student

Credit courses listed under Counseling are offered to assist students in gaining the most from college. For example, COUN 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 counseling 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.

Disabled Student Programs and Services (DSPS)

The DSPS 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 DSPS office to determine eligibility. Students with a disability who believe they may qualify for a course substitution should contact a 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, DSPS offers specialized courses in strategy training, basic skills, 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 DSPS office in the Student Services Center, Room 113, or call 949-582-4885 or Telecommunication Device for the Deaf 949-582-4833, video phone for the Deaf 949-482-4430, or visit our website at www.saddleback.edu/dgps.

Any concern regarding access to programs and services should be directed first to the Coordinator of DSPS (949-582-4885), second to the Dean of Transfer, Career, and Special Programs (949-582-4418) 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.

**Escort Service**

Saddleback College provides a Security Escort Service between classrooms and other areas of the campus. Students wishing to use this service should call 949-582-4585 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 ensure 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 a college education. These services may include academic, career, and personal counseling; book service; priority registration 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 or visit our website at [www.saddleback.edu/eops](http://www.saddleback.edu/eops).

**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/care-program](http://www.saddleback.edu/eops/care-program).

**Food Services**

The Saddleback College Cafeteria 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**

Saddleback College Student Health Center embraces student success by providing confidential, high quality medical and psychological services to all currently enrolled students who have paid their health fee.

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 the services provided by the Student Health Center.

A team of licensed medical physicians, registered nurses, and clinical psychologists along with intern therapists provides acute short-term care. Services include basic urgent care medical interventions and treatment, including pharmacy, laboratory, immunizations, women's health examination including PAP tests and birth control and physical examinations. Additionally, mental health services include crisis intervention, individual, couple, and family psychological therapy and testing. The Student Health Center also offers private health education, vision and hearing screenings, emergency first aid, insurance for college-related injuries, HIV and all other STD testing as well as alcohol, drug and other substance abuse prevention, intervention, and support services.

The Student Health Center maintains webpages and current 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).

The Student Health Center is located in the Student Services Building Room 177. Appointments are recommended and can be made by calling (949) 582-4606.

**International Students Office**

The International Student 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 office is located in the Student Services Center, Room 107. For more information, please call (949) 582-4637 or visit our website at [www.saddleback.edu/iso](http://www.saddleback.edu/iso).

**Learning Resource Center Tutoring**

LRC tutoring provides free tutoring for Saddleback College students. Varied tutoring services are available to satisfy student needs: drop-in, one-to-one, groups, exam review sessions, and faculty led skills workshops.

Free tutoring, located in LRC 212, is provided during the fall, spring, and summer terms. The LRC is closed weekends. More information is available by calling 949-582-4519, or by visiting our website at [www.saddleback.edu/tutoring](http://www.saddleback.edu/tutoring).

**LRC Tutoring Computer Skills Lab**

The Skills Lab Computer Center, located in LRC 258, offers students the opportunity to use software specific to course assignments, explore learning through the Internet, and strengthen their knowledge of technology by learning more about Blackboard, MySite, and how to be successful in online classes. Qualified personnel will assist students with their learning needs.

For more information call 949-582-4441 and visit the LRC Tutoring website [www.saddleback.edu/tutoring](http://www.saddleback.edu/tutoring).

**Library Services**

The Saddleback College Library's mission is to assist students and faculty with their research and personal information needs. The Library is located on the third floor of the renovated Library/LRC Building. For complete information about library resources and services visit the website at [www.saddleback.edu/library](http://www.saddleback.edu/library), or call 949-582-4314.

**Borrowing and Renewing Materials**

District students, faculty, and staff may borrow circulating materials with a valid photo I.D. Valid users may check out up to nine items in the circulating collection for a period of four 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 Code of Regulations, Title 5, Section 59410). To remove the "hold," a fee will be charged for each overdue item. Fines range from $5 to the actual cost of the book" (late fees apply as well).

**Student-Faculty Conferences**

The full-time faculty members of Saddleback College maintain office hours during the fall and spring semesters 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

The Financial Assistance Office is here to provide students and the community a better understanding of financial aid programs and services available. We value and take pride in the diversity of our students and the support we provide in promoting student success. There are many financial aid programs that can help students with fees, books, supplies, transportation, housing, and other related educational expenses. All students may be eligible for some form of assistance based on their financial need. Students may apply for aid by filing a Free Application for Federal Student Aid (FAFSA) online at www.fafsa.gov.

Basic Student Eligibility Requirements for Federal Student Aid

- Be enrolled as a regular student in an eligible program which includes certificate, associate in arts degree, or transfer programs
- Cannot also be enrolled in elementary or secondary school
- Have a high school diploma or equivalent
- Make satisfactory academic progress
- Meet enrollment status requirements
- Have resolved any drug conviction issue
- Be a citizen or eligible noncitizen
- Have resolved any default on a FSA loan or overpayment
- Have a valid social security number
- Men aged 18-25 must register with the Selective Service System or meet exemption requirements
- Resolve any conflicting information

There are also program-specific eligibility requirements that may be required.

To be considered for financial aid, students must complete the Free Application for Federal Student Aid (FAFSA) or the renewal application. These applications are usually available beginning in January for the following academic year. If a student is interested in a State of California Grant, the FAFSA and a GPA verification form must be completed. The Cal Grant program deadline is March 2nd of each year.

For students who miss this deadline, there is a second opportunity only for community college students to apply for Cal Grants. The deadline for this is September 2nd.

The FAFSA is the application for the following Federal and State programs:

Federal Programs

Federal Pell Grants are awarded to eligible undergraduate students who do not have a bachelor's degree, or professional degree. The amount of money awarded is based upon a student's Expected Family Contribution (EFC), the number of units enrolled, and the cost of attendance.

Federal Supplemental Educational Opportunity Grant (FSEOG) is awarded to eligible Pell Grant recipients with exceptional financial need. It is awarded on a "first-come, first-served" basis and is dependent upon funds available. Students must have a zero EFC and be enrolled in at least six units to receive the funds.

Federal Work-Study (FWS) is a program with limited funding which provides employment to help pay for part of a student's educational costs. This program is based on financial need and, if awarded, is part of a student's award package. Students on FWS may work approximately 10 hours per week on campus.

William D. Ford Federal Direct Subsidized and Unsubsidized Loans must be repaid. Students must complete a Free Application for Federal Student Aid (FAFSA) first. Once a student receives a financial aid award letter, the student may apply for a Direct Stafford loan at www.saddleback.edu/faq/ Direct Stafford Program.html. The amount of loans range from $3,500 to $10,500 per academic year. Loan amounts will be determined at the time the Financial Aid Office certifies a loan application.

Both entrance and exit counseling are requirements of the William D. Ford Federal Direct Loan Program. Students must maintain at least half-time enrollment status to receive a loan. Once a student receives loan funds, the student must maintain reasonable progress toward a certificate, associate degree, or transfer program. In reviewing a request for any loan, the Financial Aid Office may use "professional judgment" to deny a student a loan on a case-by-case basis. If denied a loan, a student will receive a letter from the Financial Aid Office indicating the reason(s) for the loan denial.

State Programs

Board of Governors Fee Waiver (BOGFW) is a program that provides assistance with mandatory enrollment fees for the entire academic year (summer, fall, and spring semesters). There is no limit to the number of units that are covered by the BOGFW. To receive this assistance, students must complete a Fee Waiver Application or must have applied for financial aid through the FAFSA or the California Dream Act, and be a California resident or an eligible AB 540 student.

Loss of Board of Governors (BOG) Fee Waiver Beginning Fall 2016, students who do not maintain minimum academic and/or progress standards for two consecutive primary semesters will be subject to loss of eligibility for the Board of Governors Fee Waiver (BOGW). The change is effective fall 2016. Registered Foster Youth are exempted from this requirement.

For more information, contact the Financial Aid Office, or visit our web page at www.saddleback.edu/faq.

The Cal Grant Program is a state funded educational opportunity program to assist students in paying for a college education. There are entitlement awards as well as competitive awards. Application deadlines are in early March and September for community college students.

All basic Cal Grant eligibility requirements are as follows: a) be a California resident, b) be a U.S. citizen or eligible non-citizen, c) meet U.S. Selective Service requirements, d) attend a qualifying California postsecondary institution, e) be enrolled at least half-time, f) maintain satisfactory academic progress as defined at the school of attendance, g) have family income and assets below the established ceilings, h) not be in default on any student loan, i) not owe any federal or state grant refund, and, j) not have a bachelor's or professional degree before receiving a Cal Grant (except for extended Cal Grant A or B awards for a teaching credential program).

Cal Grant B Entitlement Awards are for every graduating high school senior who has at least a 2.0 GPA, meets all the Cal Grant requirements and applies by March 2 within one year of graduating (or receiving their GED). This Entitlement Award provides up to $1473 for books and living expenses for the first year. Beginning with the second year of Cal Grant B benefits, this
To Maintain Financial Aid Eligibility

- Federal and State regulations are structured to ensure that students who receive financial aid are making satisfactory and measurable academic progress, whether or not the student is a prior recipient of financial aid. Failure to meet federal standards will result in the denial of aid, except the BOGF program. Academic progress for Saddleback College students is evaluated at the end of each term.

Satisfactory and measurable academic progress is defined as successfully maintaining cumulative GPA (grade point average) of 2.0 (C or greater) and complete 70% (or more) of all units attempted. Also, a student cannot exceed 150% of the maximum time frame as stated in the student educational objective.

Student Payment Office

The Student Payment Office is in the Student Services Center, Room 208. The SPO —

1. Collects student fees and fines
2. Processes refund requests
3. Disburses financial aid checks
4. Processes payment deferral requests
5. Posts and removes fiscal holds (these are holds for nonpayment) on student accounts

In addition, all student account audits and changes to student accounts are done by the SPO. For further information, please call 949-582-4870 or visit our webpage at www.saddleback.edu/spo.

Student Permanent Photo Identification (ID) Cards

Saddleback College issues student identification cards to be used for college services including the library, printing on campus, and access to other services. Your Saddleback College ID card will also work for services on the Irvine Valley College campus. To be issued a one-time permanent photo identification card, students must be currently enrolled at Saddleback College and have Saddleback College as their College of Record. Student photos may be taken in the Office of Admissions and Records (SSC 102) during normal business hours. To have a photo taken, students must bring a picture ID (e.g., driver’s license or passport) for identity verification and their student I.D. number. For questions, contact the Office of Admissions and Records at 949-582-4555 or sendemail to sadmin@saddleback.edu.

Transfer Center

The Transfer Center provides services, workshops, and special events for students preparing to transfer to four-year colleges and universities. Transfer Center counselors and representatives from four-year colleges and universities offer specialized counseling in Associate Degrees for Transfer (AA-T/AS-T); college applications and personal statements; Honors Program; and Transfer Admission Guarantees (TAG).

The Transfer Center offers workshops on the following topics:
- CSU and UC Applications
- Degree with a Guarantee Program
- UC Personal Insight Questions: Transfer Financial Aid; Specialized High School Workshops; Honors Program; Post-Application; TAG; USC and Common Application
- The Transfer Center hosts college fairs each semester which attract over 80+ CSU, UC, In-State Private, and Out-of-State colleges and universities.

The Transfer Center also provides counseling and resources for students who are preparing for a career in teaching.

For more information, contact us at SSC 225B, call us at (949) 582-4328, visit our website at www.saddleback.edu/transfer or email us at scto@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, this office assists veterans, spouses, and children apply for VA education benefits to which they are entitled.

The Veterans Office is located in the Student Services Center (SSC), Room 208. The phone number is 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.

Veterans Education and Transition Services (VETS) Program

Saddleback College is committed to easing the transition process and providing opportunities for success to our United States military Veterans. The VETS Program directly provides support services and acts as a bridge to external support services for student Veterans, active military personnel, and their families. VETS Program services include yet are not limited to: new student guidance, Veterans counseling, scholarship assistance, a link to the Veterans Student Council, Veterans outreach, and a venue for community building. Saddleback College also offers a "Boots to Books" course which integrates Veterans specific topics into the curriculum of Counseling 140 (3; CSU transferable). The VETS Program hosts events aimed at reintegration into civilian and college life.

The VETS Center is located in the Student Services Center, Room 207. For more information, phone 949-582-4252, visit our website at www.saddleback.edu/vets, or email us at vetsoutreach@saddleback.edu.

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.

Alumni Network
Reconnect with former classmates and professors that made your college experience a great one. The Saddleback College Alumni Network provides a convenient and fun way to keep in touch with Saddleback College and provides opportunities to network with other alumni in your field. Connect with people who share similar interests and keep up-to-date on Saddleback College news and events. Joining is easy. Contact the Saddleback College Foundation at (949) 582-4479 or email saddlebackfoundation@saddleback.edu.

Arts and Media
Students can get hands-on experience in various aspects of visual and performing arts, whether their passion is in performing or behind-the-scenes work. Participate in the production of a number of shows at the 405-seat McKinney Theatre in a multitude of disciplines. Saddleback also has two radio stations - KSBR, an on-air station, and OCRockRadio.com, an Internet station - and is the only college in the area that allows students to audition for on-air shifts. For students interested in television, Saddleback provides the opportunity to create programming for Channel 39, the college's TV station. Students can also compete in national speech and debate tournaments, or display and sell their art in the campus' Art Gallery.

Associated Students of Saddleback

The Associated Student Government provides an excellent opportunity to have a voice in policy making on the campus. ASG, along with numerous campus clubs, participate in the planning and execution of special events such as: Blood Drives, Club Fairs, Charity Fundraisers, Campus-Wide BBQs, and many more. ASG leaders are also actively involved in various campus-wide governance committees. The Associated Student Government Board of Directors meets on Friday mornings in SSC 211C. The meetings are open to the public.

Associated Student Body (ASB) Stamp and FUND-Card
The Associated Student Government provides an excellent program of activities and services. The funding for this program comes, in part, from the sale of the ASB stamp. Students are encouraged to purchase the stamp during online registration or at the Student Payment Office, SSC 208, during posted hours. This stamp provides the holder with free admission to athletic, theater and other special college events as well as discounts for amusement venues. The stamp is placed on the student ID when picked up from the Student Development Office - SSC 210. A receipt must be presented to redeem. In addition, each stamp holder will receive a FUND-Card comprised of $400 of local discounts. For additional information, please contact Student Development, SSC 210 at 949-582-4616 or scstudentdevelopment@saddleback.edu.

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, sand volleyball, water polo, and soccer.

The athletic programs are supported in part by the Associated Student Body at Saddleback College.

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

Serving as leader to a college club has proven to increase one's chances of gaining admissions to a 4-year university by demonstrating a well-rounded student of academics, extra-curricular activities and leadership skills.

Student clubs are initiated and run by students who wish to gain leadership experience. To start a club, visit www.saddleback.edu/clubs or the Student Development Offices, SSC 210.

Each month clubs can be found recruiting and sponsoring programs on the Quad. For more schedule of events and information, please visit www.saddleback.edu/clubs or the Student Development Office, SSC 210.

Cultural Activities

The Associated Student Government is home to the International and Diversity Student Council that upholds the mission to promote cultural awareness of all persons on the campus. Typical programs include: International Film Festival, Financial Aid Fair and Peer Mentoring, and Outreach Fair so students can explore different cultures and connect with all types of people. These programs are open to the college and community and are supported through the sale of ASB stamps and ASG funding. Please visit the ASG and Campus Life Portal on the web at www.saddleback.edu/asg.

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 three campus-wide honor societies, Alpha Gamma Sigma, Phi Theta Kappa and Psi Beta are involved in community and college service activities, scholarship fund-raising, social activities, and leadership development. They are open to day and evening students, whether part-time or full-time.

Within each society, scholarships are available either from the local chapter, the parent society, or four-year colleges and universities that reserve scholarship monies for society members. Membership is 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 and at least 12 are invited to join.

Psi Beta, the national community-college honor society was established in 1919 and has had a strong presence on the Saddleback College campus for many years. Students with a cumulative GPA of 3.0, 12, and are currently enrolled in a psychology course are invited to join. In order to establish membership, students must apply and pay the once-in-a-lifetime national membership dues.

For further information about Alpha Gamma Sigma and Psi Beta, or starting another honor society, contact the Saddleback College Student Development Office (SSC 210) at 949-582-4616 or visit www.saddleback.edu/clubs.

For further information about Phi Theta Kappa, contact the Liberal Arts Division (LRC 344) at 949-582-4788. 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 information about the Honors Program, see the Honors Program page in this catalog.

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.

Saddleback College’s own Channel 39 on Cox Cable broadcasts telecourses, district events, and film and television projects by students in the Cinema/Television/Radio Department, which include many film/video festival winners. The radio program in Cinema/TV/Radio is built around Saddleback College's on-air radio station, 88.5FM KSBR, and its Internet radio station, OCRockRadio.com. Students are eligible to apply for various positions at the stations, including on-air broadcasting, programming, promotions, sales, and music - an opportunity few other colleges can offer.

Student Development and Campus Life

The Student Development Office is committed to the philosophy that students who participate in the life of a college excel academically, personally and professionally. Students who participate in co-curricular activities, building relationships with faculty, staff, and peers are most likely to stay in school and persist to graduation. Therefore, the Student Development Office exists to support the leadership and personal development of our students through opportunities such as the Associated Student Government (ASG) and campus clubs.
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. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open defiance of the authority of district personnel.
B. Assault, battery, or any threat of force or violence upon a student, district personnel, or an authorized visitor.
C. Willful misconduct resulting in injury or death to a student or district personnel or an authorized visitor, or willful misconduct resulting in damage, defacing, theft, or other injury to any real or personal property owned by the District, or district personnel, or students in attendance at the colleges or programs of the District.
D. Unsafe behavior in a clinical or lab setting the poses a threat to self or others.
E. The unlawful use, sale, or possession on district property or presence on district property while under the influence of any controlled substance or any poison classified as such by state or federal law.
F. Smoking in an area where smoking has been prohibited by law or by policy of the Board of Trustees or administrative regulation.
G. Disorderly, lewd, indecent, or obscene conduct on district property or at district sponsored functions.
H. Sexual assault (as defined in Board Policy 5404) on any student or employee of the District, on campus or off-campus grounds or facilities maintained by the District.
I. 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 district-sponsored function without the prior authorization of the disciplinary officer.
J. The obstruction or disruption, on or off campus, of any educational or administrative process or function of the District.
K. 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 program or activity.
L. Misrepresentation of oneself or of an organization as an agent of the District.
M. Soliciting or assisting another to do any act which would subject a student to discipline.
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.
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's 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 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).
Disciplinary Procedures

A. Initiation of the Disciplinary Process
A request for disciplinary action may be initiated in writing by district employees. When there is a violation of the Student Code of Conduct, the following procedures will be followed:

1. If the conduct occurred in the classroom, the instructor may remove the student from his or her class for that day and the next class meeting if the student interfered with the instructional process. Removal must be reported to the disciplinary officer immediately. If the student is a threat to self or to others, the instructor must contact Campus Police immediately. If the student removed is a dependent minor, the instructor may request that the student's parent or guardian attend a parent conference regarding the removal. Upon removal of a student, the instructor will give the student verbal and/or written notice of the reasons for the removal.

2. If the conduct did not occur in the classroom, the district employee discovering the conduct will report the incident to the disciplinary officer and submit a written report on the appropriate form (i.e., Conduct Referral form). The report should include (a) date of the conduct, (b) location, (c) names of witnesses, and (d) a detailed explanation of the alleged misconduct along with a description of efforts made to correct behavior or action taken by employee.

3. When the report of alleged misconduct is sent to the disciplinary officer, the officer will evaluate the information to determine if it alleges a violation of the District's student conduct policy and/or regulations. If the disciplinary officer determines that the report supports such allegations, a meeting will be requested with the student to provide the student an opportunity to respond to the allegations.

4. The disciplinary officer will review all documentation related to the case to make a determination if disciplinary action is required.

5. The disciplinary officer will send a notice by certified mail to the student charged with the violation when suspension or expulsion is recommended. This notice will include a written explanation of the incident and the charges that have been made (i.e., the specific conduct involved and the specific regulation(s) alleged to have been violated.

6. The disciplinary decision is final and it is immediately in effect unless it involves termination of State and/or local financial aid, suspension, or recommendation of expulsion, in which case the student may appeal the decision to the Disciplinary Hearing Panel within ten days. In cases referred to the Panel by the disciplinary officer or in cases where the decision is appealed to the Panel, the procedures in Section V will be followed. The student may accept the penalty of suspension or expulsion without further hearing and without admitting participation in the conduct charged.

B. Range of Disciplinary Actions

1. Verbal reprimand: A warning that the conduct is not acceptable.

2. Written reprimand: Becomes part of the student file for a minimum of five years or longer at the discretion of the disciplinary officer and is considered in the event of future violations.

3. Mental Health Clearance: Mental health clearance may be required before a student is readmitted to a particular class or allowed to be on district property. The disciplinary officer (or designee) must receive a letter from a licensed mental health professional stating that in his or her professional judgment, the student will no longer continue the behavior which gave rise to the disciplinary action or that the student's presence on campus is not a threat to himself or herself or others. The mental health professional must be licensed by the State of California. The student shall bear the cost and expense of obtaining mental health clearance.

4. Disciplinary Probation: A specific period of conditional participation in campus and academic affairs, which may involve any or all of the following:
   a. Ineligibility for all student government roles;
   b. Removal from any student government position;
   c. Revocation of the privilege of participating in district and/or student-sponsored activities;
   d. Ineligibility for membership on an athletic team;
   e. Limitation of courses and/or instructors the student may take.

5. Suspension: The Board of Trustees or the disciplinary officer may suspend a student for
The student has the right to appeal the decision of the instructor or the disciplinary officer.

A. Appeal of an Academic Dishonesty Decision
1. The student has the right to file an appeal of a decision regarding academic dishonesty to the dean of the department or school in which the alleged dishonesty occurred. The appeal must be in writing and received by the dean within ten working days of the informal meeting with the instructor. A grade, however, is not a disciplinary action but an evaluation of work, and is subject to appeal except as provided in the grade grievance process as set forth in Board policy 5505.
2. The dean may request that the instructor submit a written statement supporting his or her position.
3. Within thirty days of receipt of the request of appeal, the dean will arrange a meeting with the instructor and the student. If the instructor is no longer employed by the District, or is unavailable because of sabbatical or other leave, the dean will appoint another instructor in the same disciplinary area to assume the responsibilities of the instructor.
4. At the meeting, the evidence of academic dishonesty will be presented and every effort will be made to resolve the matter. In the absence of a resolution, the student may elect to follow the appropriate grievance or disciplinary appeal procedure as specified in Board policies and regulations.

B. Appeal of a Hearing Panel Decision to Suspend or Recommendation to Expel
The student may appeal a Hearing Panel decision in writing to the college president, within ten days of the decision/recommendation. The basis for the appeal will include evidence to support one or more of the following factors:
1. The decision lacks substantial basis in fact to support the findings,
2. There is substantial incongruity between the proposed sanction and findings,
3. There is substantial unfairness in the proceedings which has deprived the student of a fair and impartial process; and/or
4. There is newly discovered critical evidence, that despite due diligence on the part of the student, was not known at the time of the hearing.

The college president or the president's designee may decide the issue based solely on the written appeal. The decision will be made available to the student charged within ten days of receipt of appeal. The decision will be final except in the case of expulsion where final action will be taken by the Board of Trustees.

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 shall treat all students with fairness and respect.
- Faculty shall encourage the free exchange of ideas between themselves and students.
- Faculty shall conscientiously strive to be fair and balanced in their evaluation of student work.
- Faculty should not exploit their students for personal gain.
- Faculty shall 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

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 use 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.

Smoke Free Campus

It is the policy of the South Orange County Community College District to maintain a smoke free/tobacco free environment for all district sites. The use of cigarette and/or all tobacco products is prohibited within any District facility and/or on any property. This administrative regulation pertains to students, faculty, staff, administrators, visitors, and the general public attending events at any site within the district. Additionally, this policy shall apply to all District facilities or properties, owned or leased, regardless of location; and all state and auxiliary vehicles.

The following guidelines shall apply:

1. Smoking and the use of all tobacco products is prohibited in all District buildings and on all District property.
2. District owned or rented vehicles transporting students and staff for instructional/extra-curricular activities are considered non-smoking areas.
3. As new related medical research and information becomes available, this Administrative Regulation and corresponding Board Policy will be reviewed by the Student Health Centers and the Employee Wellness Program and distributed as appropriate.
4. The Student Health Centers will serve as referral agencies and provide guidance for students and staff as requested.
5. A district committee composed of representatives from the college and the district will review the regulations periodically.

Tobacco products include, but are not limited to, the burning of any type of cigar, cigarette, or pipe. In addition, the use of electronic cigarettes (vapor) and smokeless/chewing tobacco are prohibited. Tobacco products shall not be commercially sold or distributed in any manner on any district site. This includes free sample distributed by vendors. Advertising and sponsorship of events by tobacco companies is also prohibited.

Violators of this regulation may be subject to a citation.

Nondiscrimination and Harassment Policy

The South Orange County Community College District is committed to providing an academic and work environment free of unlawful discrimination and harassment. Federal and state laws and District policies afford students and employees the right to work or learn in an environment free from discriminatory intimidation, ridicule and insult. The District prohibits illegal harassment including the acts of students, employees, and non-employees. Prompt and equitable action, including appropriate disciplinary action, will be taken against any student, employee (supervisory or otherwise), or agent of the District, who engages in such conduct. The action will be prompt, effective, and commensurate with the severity of the offense.

General Harassment

Discrimination and/or harassment based on race, color, sex, gender, gender identity, gender expression, religion, national origin, ethnic group identification, ancestry, age, physical or mental disability, medical condition, military service, sexual orientation, marital status, pregnancy, or any legally protected characteristic, or the perception that a person has one or more of these characteristics is illegal and violates District policy.

Gender-based harassment does not necessarily involve conduct that is sexual. Any hostile or offensive conduct based on gender can constitute prohibited harassment. Harassment comes in many forms, including but not limited to the following conduct:

- Verbal: Inappropriate or offensive remarks, slurs, jokes or innuendoes based on a person's race, gender, sexual orientation, or other legally protected status.
- Visual or Written: The display or circulation of visual or written material that degrades an individual or group based on gender, race, nationality, sexual orientation, or other legally protected status.
- Environmental: A hostile academic or work environment exists where it is permeated by sexual innuendo; insults or abusive comments directed at an individual or group based on gender, race, nationality, sexual orientation or other legally protected status; or gratuitous comments regarding gender, race, nationality, sexual orientation or other legally protected status that are not relevant to the subject matter of the class or activities on the job.
- Physical: Inappropriate or offensive touching, assault, or physical interference with free movement. This may include, but is not limited to, kissing, patting, lingering or intimate touches, grabbing, pinching, leering, staring, unnecessarily brushing against or blocking another person, whistling or sexual gestures. It also includes any physical assault or intimidation directed at an individual due to that person's gender, race, national origin, sexual orientation or other protected status. Physical sexual harassment includes acts of sexual violence, such as rape, sexual assault, sexual battery, and sexual coercion. Sexual violence refers to physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent due to the victim's use of drugs or alcohol. An individual also may be unable to give consent due to an intellectual or other disability.

Sexual Harassment

In addition to the above, sexual harassment consists of unwelcome sexual advances, requests for sexual favors, and other conduct of a sexual nature when:

- Submission to the conduct is made a term or condition of an individual's employment, academic status, or progress;
- Submission to, or rejection of, the conduct by the individual is used as a basis of employment or academic decisions affecting the individual;
- The conduct has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile or offensive work or educational environment;
- Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the college.

Complaint Procedures

Informal Procedures

The District strongly encourages students and staff who believe they are being harassed to file a complaint in a timely manner. Since failure to report harassment impedes the District's ability to
stop the behavior, the District strongly encourages that such complaints be made within 30 days of the alleged incident. Any complaint not involving employment may be made orally or in writing within one year of the date of the alleged discrimination or harassment.

The District has established “designated officers” who are charged with receiving complaints. The designated officer will explain the rights and options available to the individual bringing charges of unlawful discrimination or harassment. If there is a simple misunderstanding or the individual does not wish to file a formal complaint, the individual may elect to pursue an informal resolution process. The informal process is not a prerequisite for filing a formal complaint.

An individual who feels they have been subjected to sexual assault may file a complaint with the police department in addition to any other complaint.

Individuals who believe they have been subjected to unlawful discrimination, including harassment, may report complaints to the designated officer for Saddleback College:

Vice President for Student Services
28000 Marguerite Pkwy.
Mission Viejo, California 92692
949/582-4566

Formal Procedures
If an informal process does not resolve the matter and/or the complainant wishes to pursue formal charges, he or she may elect to follow formal complaint procedures. The informal process may not be appropriate for complaints of sexual assault. Formal complaints of unlawful discrimination or harassment must be filed in writing on a form prescribed by the State Chancellor. Approved complaint forms are available from any one of the following sources:

Vice President for Student Services
28000 Marguerite Pkwy.
Mission Viejo, California 92692
949/582-4566

Director of Human Resources
South Orange County Community College District
28000 Marguerite Parkway
Mission Viejo, California 92692
949/582-4348 or 949/582-4850

Saddleback College - www.saddleback.edu

South Orange County Community College District - www.socccd.edu/hr/HRforms.asp

California Community Colleges Chancellor’s Office - www.cccco.edu

Upon receiving a formal written complaint, the District will determine whether the complaint has met the necessary requirements, which include but are not limited to whether it was filed in a timely manner, on an appropriate form, and whether it alleges unlawful discrimination as stipulated in Title 5, section 59300. The District will investigate properly filed complaints according to procedures prescribed in Board policy. The District will complete its investigation within 90 days of receiving the complaint and report its administrative determination. The District must provide written notice to both the complainant and the State Chancellor of whether there is probable cause to sustain the charges raised in the complaint; a description of the action taken, if any, to prevent similar problems from occurring in the future; the proposed resolution of the complaint; and the complainant’s right to appeal to the District and the State Chancellor.

Further Information
For more comprehensive information about discrimination and harassment, students are encouraged to read the Harassment Policy and Complaint Procedure brochure, available in the Vice President for Student Services, Administration & Governance Building, AGB 126. [link to brochure]

Students are also encouraged to read the Harassment Policy and Complaint Procedure brochure, available in the Vice President for Student Services, Administration & Governance Building, AGB 126, 949-582-4566. [link to SOCCCD website]

Students may also refer to Administrative Regulation 4000.5 for more information regarding filing a complaint and investigation procedures.

Disability Discrimination
Students who have specific questions related to disability discrimination are encouraged to contact Special Services at 949-582-4885, [link to contact page] or 949-482-4430 (video phone for deaf) 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 upon request.

Formal complaints may be filed in the Office of the Vice President for Student Services, ADA/504 Officer, Administration & Governance Building, AGB 126, 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.

ADA Academic Adjustments
Students with verified disabilities who believe they have not been given reasonable academic accommodations are urged to immediately contact DSPS, 949-582-4885 (voice) or 949-482-4430 (video phone for deaf) 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 upon request.

Formal complaints may be filed in the Office of the Vice President for Student Services, ADA/504 Officer, Administration & Governance Building, AGB 126, 949-582-4566.

Students with verified disabilities who believe they have not been given reasonable academic accommodations are urged to immediately contact DSPS, 949-582-4885 (voice) or 949-482-4430 (video phone for deaf) 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 upon request.

Formal complaints may be filed in the Office of the Vice President for Student Services, ADA/504 Officer, Administration & Governance Building, AGB 126, 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.

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 59300 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. During the summer, given that many faculty and most students are not on campus, it may not be possible to convene a Hearing Panel in 15 days, but it will be scheduled no later than 15 days after the first day of fall semester instruction.
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. During the summer, given that many faculty and most students are not on campus, it may not be possible to convene the grievance hearing within 45 days. It will be scheduled no later than 30 days after the first day of fall semester instruction, or 45 days after the first panel, whichever comes later.
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
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 than 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 meet 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
Student Right-to-Know Disclosure

- Completion Rate Statewide: 29.45%
- Saddleback College: 35.61%
- Transfer Rate Statewide: 10.90%
- Saddleback College: 12.00%

In compliance with the Student-Right-to-Know (SRTK) and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the South Orange County Community College District and Saddleback College to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2012, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three-year period. Their completion and transfer rates are listed above.

Based upon the cohort defined above, a "completer" is a student who attained a degree or certificate or became "transfer prepared" during a three-year period, from Fall 2010 to Spring 2013. Students who have completed 60 transferable units with a GPA of 2.0 or better are considered "transfer prepared." Students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming "transfer prepared" during a five-semester period, from Fall 2010 to Spring 2013, are transfer 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: http://srtk.cccco.edu/index.asp.

NOTE: SRTK rates do not represent the success rates of the entire student population at Saddleback College, nor do they account for student outcomes occurring after this three-year tracking period. Additionally, the rates do not describe other important features about the college and its students.

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:

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

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

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

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

Section 405: No person shall stop, park, or leave standing any vehicle in 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.

**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 Student Health Center 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. Persons who are disabled may apply to Special Services for parking accommodations. Upon the approval of such an application by the Special Services department of Saddleback College, Special Services will provide documentation for Campus Security to issue a parking permit. This medical parking permit allows parking in areas posted “Staff Parking by Permit.” Application for this permit must be made each semester and a new parking permit obtained by the first day of class each semester. These permits are not valid in metered areas.

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

For students who have a convertible or open top jeep vehicle, go to Campus 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**
      Please visit [www.saddleback.edu/spo/fees](http://www.saddleback.edu/spo/fees) for a current list of parking fees. Annual permits — 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**
      Please visit [www.saddleback.edu/spo/fees](http://www.saddleback.edu/spo/fees) for a current list of parking fees.
   c. **Short-term Parking** — all motor vehicles Please visit [www.saddleback.edu/spo/fees](http://www.saddleback.edu/spo/fees) for a current list of parking fees.

2. **Parking Meters** — Available for 2 hour maximum.

Day parking permits can be purchased at any one of the current list of parking fees.

Day parking permits can be purchased at any one of the yellow permit dispenser machines currently located at the Medical Center Drive campus entrance next to the flag pole; at the north end of parking lot 10, at lot 5A (Near Tennis Courts); and at parking lot 1. Timed metered parking is available at the north end of lot #9.

**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 persons with physical disabilities.
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)

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

All prerequisite course clearances require a grade of C or higher.

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 where 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 "W" symbol as authorized in this section, other than a "W." Students are limited to a total of three 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 20% of the course. Withdrawal between the 20% 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 "W's" 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 probation/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 in residence.
- Standards for Dean's List or other academic honors are based on letter-graded courses.

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

State regulations (Title 5, sections 55040-55045) restrict the number of times a student may enroll in a course within a community college district. The number of times a student may enroll in a course is based on whether the course is designated “repeatable” or “non-repeatable.” Any student registering to repeat a course not identified as repeatable or repeating a course “repeatable” or “non-repeatable.” Any student registering to enroll in a course is based on whether the course is designated “repeatable” or “non-repeatable.” Any student registering to repeat a course not identified as repeatable or repeating a course more often than permitted may be dropped from the course.

Non-Repeatable Courses

Most credit courses are designated as “non-repeatable” in accordance with Title 5 thereby limiting students to a single enrollment if the student receives a satisfactory grade (A, B, C, P, or CR) or an Incomplete. Under current repetition rules, students are permitted to enroll in a non-repeatable course up to a maximum of two additional times to replace a substandard grade (D, F, NP, or NC) or if they withdrew from the course and received a W on their transcript. Students may not exceed three enrollments in a non-repeatable course. An enrollment is defined by the assignment of a passing or a substandard grade; Incompletes and Withdrawals are included in this limitation. Non-repeatable courses are designated "NR" in their course description within this catalog.

This enrollment limitation for non-repeatable courses is enforced within the South Orange County Community College District, which includes Saddleback and Irvine Valley colleges. Additional enrollments beyond the maximum of three may be permitted on a very limited basis through the formal petition process at the Office of Admissions and Records (see Repetition for Special Circumstances).

Repeatability of Courses

As of January 2013, only three types of courses are repeatable (Title 5 § 55040(b)(1), 55041):

1. Courses for which additional enrollments are necessary to meet the major requirement of California State University (CSU) or University of California (UC) for completion of a bachelor's degree. Such courses may allow for additional enrollments to allow the student to meet the lower division component of these major requirements. The number of maximum enrollments may not exceed four and might be fewer if the transfer institution requires fewer than four enrollments or if the course is related in content to other courses offered at the college.

2. Intercollegiate athletics. These courses include those in which student athletes are enrolled to participate in an organized competitive sport sponsored by the district or a conditioning course which supports the organized competitive sport. Student athletes are limited to no more than 350 contact hours within a fiscal year (July 1-June 30); they are permitted a maximum of 175 hours in courses dedicated to the sport and 175 hours in courses focusing on skill development and conditioning.

3. Intercollegiate academic or vocational competition. Such courses must be designed specifically for students to participate in non-athletic competitive events, the competition must be between students from different colleges, the competition must be sanctioned by a formal collegiate or industry governing body, and participation in the event must be directly related to the course content. Students enrolled in these courses are required to participate in the academic or vocational competition.

Those courses that allow for additional enrollments beyond the first successful completion are designated by an "R" code followed by a number indicating the number of enrollments permitted. For example, a course with the designation R-E-3 allows for a maximum of four enrollments (the original enrollment plus an additional three) regardless of whether the student received a grade (A, B, C, D, F, P(C), NP (NC)) or a W. An explanation of the repeat codes is contained within the Announcement of Courses section of this catalog.

Repetition to Alleviate Previously Earned Substandard Grade

To alleviate a substandard grade in calculating the GPA from a non-repeatable course, the student should re-enroll in the same course at Saddleback College or take an equivalent course at Irvine Valley College. The student must ensure that the IVC course taken is deemed equivalent prior to enrolling in it by consulting with a counselor at Saddleback College. Because courses are sometimes discontinued, students should re-enroll in the same course in following term after receiving the substandard grade. If the course is no longer offered, the ability to re-enroll and suppress the substandard grade is lost.

A student may request to have the substandard grade disregarded in the computation of their GPA by submitting a Request for Transcript Repeat Notation to the Office of Admissions and Records. The form is available to download from the Admissions and Records website at www.saddleback.edu/admissions/forms.html.

The previously recorded course and grade 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. A maximum of two previous grades per course may be disregarded in computing the student’s grade point average. All previous work will remain on the student’s transcript to ensure a true and complete academic history.

Repetition for Special Circumstances

Significant Lapse of Time

Students may be considered for an additional enrollment after they have successfully completed a course if:
1. There has been a significant lapse of time (not less than 36 months) AND
2. The student can provide documentation that
   a) The SOCCC District has established a recency prerequisite for a course or program OR
   b) Another institution of higher education to which the student seeks to transfer has established a recency requirement which the student will not be able to satisfy without repeating the course in question.

Students wishing to request an additional enrollment due to a significant lapse of time must complete an Academic Appeal Form. The form may be downloaded at www.saddleback.edu/admissions/forms.html. The form must be filed at least two weeks prior to the start of the semester in which the student seeks the course repetition.

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1. There has been a significant lapse of time (not less than 36 months) AND
2. The student can provide documentation that
   a) The SOCCC District has established a recency prerequisite for a course or program OR
   b) Another institution of higher education to which the student seeks to transfer has established a recency requirement which the student will not be able to satisfy without repeating the course in question.

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Extenuating Circumstances

Students may petition to enroll in a course one additional time due to extenuating circumstances. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the student's control resulting in either a passing or a substandard grade; students receiving an I, IP, or W cannot re-enroll in a course as a result of extenuating circumstances. **Students may only be approved for this reason one time per course.** Students may file an Academic Appeal Form for course repetition in the Office of Admissions and Records. The form may be downloaded at www.saddleback.edu/admissions/forms.html and must be filed two weeks prior to the semester in which the student seeks the course repetition.

Legally Mandated Training

Students may repeat courses to meet legally mandated training requirements if the course is required by statute or regulation as a condition of continued paid or volunteer employment ($55000(k)); they may be required to certify or document that such re-enrollment is necessary. A student needing to repeat a course required for employment/ certification (e.g. CPR class) must provide documentation of the mandate to Admissions and Records and petition for enrollment.

Significant Change in Industry or Licensure Standards

Students may be permitted to repeat a previously completed course if there has been a **significant** change in industry or licensure standards since the student last took the course such that the student could not obtain or maintain employment or license without retaking the course. Students may be required to provide a letter from their current or prospective employer stating the course must be taken again for employment as well as provide documentation of the significant change in industry standard since the course was last completed. Students should contact the Office of Admissions and Records for additional information.

Special Classes for Students with Disabilities

Pursuant to state and federal nondiscrimination laws, repetition of special classes designated to provide accommodations to a student's educational limitations may be permitted for any of the following reasons:

1. The student's continuing success in general and/or special classes is dependent upon additional enrollments in a specific special class,
2. Additional enrollments in a specific special class are essential to completing the student's preparation for enrollment into other special or general courses,
3. The student's educational contract includes a specific goal (other than completion of the special class in question) and additional enrollments will help further that goal.

Active Participatory Courses

Active participatory courses in physical education, visual arts, or performing arts (including - but not limited to - Dance, Theatre, Kinesiology, Visual Arts, and most Music courses) that are related in content to one or more other courses have additional restrictions on repeatability and repetition. Courses are defined as being related in content when they have "similar primary educational activities in which skill levels or variations are separated into distinct courses with different student learning outcomes for each level or variation" ($55000). Students are limited to four semester enrollments in courses that are related in content; this limitation applies even if an active participatory course is designated as repeatable. Students may repeat active participatory courses in which a substandard grade or W was received, however all enrollments count toward the four enrollment maximum.

Scholarship Standards

Dean's List

Students who achieve a grade point average of 3.25 or higher in 12* or 3.5 in at least 6 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. For the Dean's List certificate check with the Office for the Vice President for Instruction, AGB 109 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 for associate degree programs, 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 at Saddleback College and all transcripts used 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 diploma.

Probation

**Academic Probation**

A student who has attempted at least 12 semester units at Saddleback College and/or Irvine Valley College is placed on 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.

**First Time Probation**

Students who are on academic or progress probation for the first time will receive a PB (probation block) hold. Students will be notified of this hold in their student portal MySite and via email form the college. All students that receive a PB hold will be blocked from all future course enrollments. For further information, please contact the Matriculation Office at (949) 582-4970 or visit www.saddleback.edu/no-f

**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.
Probation
A student on 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.

Academic Renewal
Students may petition to have their academic record reviewed for academic renewal of substandard academic performance in consecutive terms under the following conditions:

- Students must have achieved a grade point average of 2.5 with a minimum of 30 semester units at regionally accredited colleges or universities subsequent to the substandard work in question.
- Students must not have requested or have been granted academic renewal within the SOCCCD.
- Only work completed three years or more before the date of petition may qualify for academic renewal.
- Previous substandard work will be disregarded only by the term, not 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.
- Only substandard semesters (below 2.0) may be considered for renewal.
- A maximum of two semesters of full-time work or 30 units of part-time work may be disregarded.
- Academic renewal may not be granted for a semester containing coursework used as a requirement for a degree, certificate, or skills award to the student within the SOCCCD.

The procedures are as follows:

1. A petition must be filed in the Office of Admissions and Records. The Registrar or Dean of Enrollment Services is the designated authority for approval of academic renewal.
2. Accompanying the petition must be evidence that the previous substandard work does not reflect the student's current performance or capabilities.
3. Previous substandard work will be disregarded. Substandard grades are defined as "D," "F," or "NP."
4. No more than 30 units of coursework can be considered for academic renewal.
5. Such alleviation shall be permitted only after thirty (30) semester units with a 2.50 GPA have been completed and a minimum of two (2) terms have elapsed since the earning of the last substandard grades to be alleviated.
6. When coursework is disregarded in the computation of the cumulative GPA, the student's academic record will be annotated; all coursework remains on record, ensuring a true and complete academic history. Academic renewal actions are irreversible.

Suspension of VA Benefits Due to Probation
Saddleback College is responsible for enforcing the Department of Veterans Affairs' (DVA) standards of academic progress. These standards require the college Veterans Office to suspend, for one semester, the VA education benefits of students who have been on academic or lack-of-progress probation for two consecutive semesters. The college Veterans Office is also required to notify DVA of this suspension.

VA benefits reinstatement: In addition to not receiving VA education benefits for one semester, students must have a written evaluation completed by an academic counselor. The evaluation must certify that the student has a reasonable chance of academic success in future semesters. Students who change their academic programs must satisfy more stringent requirements, including submission to VA of a request for reinstatement of benefits.

Once VA benefits are re-instated, students are required to maintain a 2.0 semester GPA every semester until they achieve a 2.0 cumulative GPA. Failure to do so will result in immediate suspension of VA education benefits for another semester. Please call the college Veterans Office at 949-582-4871 for further details.

Academic Renewal
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:

<table>
<thead>
<tr>
<th>Full-time</th>
<th>12 or more units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-fourth time</td>
<td>9 - 11.5</td>
</tr>
<tr>
<td>One-half time</td>
<td>6 - 8.5</td>
</tr>
</tbody>
</table>

An average of 15-16 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 Rights and Privacy Act is designed to protect the privacy of student information.

Saddleback College regards as public information:
1. Student name
2. City of residence
3. Major field of study
4. Participation in officially recognized activities and sports including weight, height, and high school of graduation of athletic team members.

5. Dates of attendance.
6. Degrees and awards received including honors, scholarship awards, athletic awards and Dean's List recognition.
7. Photo ID.
8. Enrollment status.

Students who do not wish to have the above directory information released must submit a written request to the Dean of 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 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 two cumulative instructional hours per credit unit or after six cumulative instructional hours.

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

Final Examinations

Final examinations 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 instructor teaching the course and the division dean.

Honors Program

Philosophy and Rationale

The Saddleback College Honors Program is an interdisciplinary effort to develop exceptional talent, ability, and scholarship in highly motivated students.

The Honors Curriculum

Faculty design Honors classes to:
- develop strong "high-level" cognitive skills such as problem solving, evaluation, synthesis, critical thinking, and independent thinking;
- build writing and research capabilities in students so that they can excel at upper-division work after transfer;
- create a challenging, highly interactive, enjoyable academic experience; and
- take advantage of the opportunities allowed by the smaller class size (25 students per class).

The Honors Program offers a wide variety of UC-transferable courses that fit into the major or general education courses for most students. Check the Class Schedule to see which Honors courses are being offered in any given semester.

Honors Students

Any Saddleback College student may enroll in an Honors class without completing an application or seeking special permission. All students in Honors classes do Honors work and receive "H" transcript credit. By enrolling, a student chooses to do Honors work to Honors standards:

- Certificate-Track Honors Students have completed an Application for Certificate-Track Status and have been admitted to that status. They may be full-time or part-time students. Certificate-Track status confers benefits outside the classroom, as discussed below.
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.

Benefits and Activities
Honors students may participate in a variety of activities that include cultural events, field trips, conferences, independent study projects, and special events at four-year colleges and universities. Certificate-Track students in good standing are eligible for priority registration, free library cards at UC Irvine and UCLA, preferential transfer opportunities, Honors academic and transfer counseling, and other benefits.

Honors Transfer
Students who complete the Honors Program Certificate requirements in good standing are eligible for special admission consideration at many colleges and universities. Additional requirements (e.g., major preparation, GPA) usually exist. Because of the complexity of Honors Program transfer partnerships, students meet each semester with an Honors counselor in the Transfer Center. Some agreements include scholarships, Honors-to-Honors transfer, and other benefits. No agreements provide guarantees.

Certificate-Track Status Requirements
1. Complete application (see www.saddleback.edu/honors).
2. For students with fewer than 12 UC-transferable semester units, a weighted academic high school GPA of 3.25 or higher, as evidenced by transcripts (unofficial copies are acceptable).
3. For students with at least 12 UC-transferable semester units, a GPA of 3.25 in those courses, as shown by transcripts of all college-level work (unofficial copies are acceptable).
4. Placement by the Matriculation Office in either English 1A or 1B eligibility.
5. No record of academic dishonesty.

Good Standing
To maintain good standing in the Honors Program, students must maintain their overall GPA at or above 3.25; meet with an Honors counselor in the Transfer Center at least once per semester; make reasonable progress toward completion of academic goals, including Honors coursework; engage in community, school, or leadership service, unless excused; commit no acts of academic dishonesty; and maintain records and good communication with the Transfer Center and the Honors Program Office.

Requirements for the Certificate
1. Completion of the Honors “core” curriculum, which includes any two of the Culture, Science and Society courses and one of the following three options:
   • English 1AH or
   • English 1B (Honors) or
   • Library Science 2 and any Honors literature course
2. Completion of six additional Honors elective units (usually two courses). Students who complete English 1AH may complete with five elective units.
3. Completion of all Honors classes with a GPA of at least 3.20. All Honors courses must be graded.
4. Good standing at time of completion.

Credit for Prior Learning
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.

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) or No Pass (NP) 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 earned 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.*

<table>
<thead>
<tr>
<th>Advanced Placement Exam</th>
<th>Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units</th>
<th>CSU GE Certification Area/Semester Units</th>
<th>CSU Minimum Admission Semester Units</th>
<th>IGETC Certification Area/Semester Units</th>
<th>UC Admissions Semester Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>5 units towards Fine Arts GE requirement</td>
<td>Area C1 or C2 3 units</td>
<td>6 units</td>
<td>Area 3A or 3B 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Art Studio -2D Design</td>
<td>5 units of elective Art Studio credit for either Drawing or General Portfolio</td>
<td>N/A</td>
<td>3 units</td>
<td>N/A</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Art Studio -3D Design</td>
<td>(5-unit maximum credit for both exams)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art Studio -Drawing</td>
<td>(5-unit maximum credit for both exams)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>Credit for BIO 20</td>
<td>Area B2 and B3 4 units</td>
<td>6 units</td>
<td>Area 5A and 5C (lab) 4 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Credit for CHEM 3</td>
<td>Area B1 and B3 4 units</td>
<td>6 units</td>
<td>Area 5A and 5C (lab) 4 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Chinese - Language &amp; Culture</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Area 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Computer Science A Exam</td>
<td>N/A</td>
<td>N/A</td>
<td>3 units (Only one CS Exam may be applied)</td>
<td>N/A</td>
<td>1.3 units</td>
</tr>
<tr>
<td>Computer Science AB Exam Only</td>
<td>Credit for CS 1A with a score of 3. Credit for CS 1B with a score of 4 or 5</td>
<td>N/A</td>
<td>6 units (Only one CS Exam may be applied)</td>
<td>N/A</td>
<td>2.7 units max</td>
</tr>
<tr>
<td>Economics - Macro Exam</td>
<td>Credit for ECON 20 with a score of 3 or 4. Credit for ECON 2 with a score of 5</td>
<td>Area D2 3 units</td>
<td>3 units</td>
<td>Area 4B 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td>Economics - Micro Exam</td>
<td>Credit for ECON 20 with a score of 3 or 4. Credit for ECON 4 with a score of 5</td>
<td>Area D2 3 units</td>
<td>3 units</td>
<td>Area 4B 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td>English - Language and Composition</td>
<td>Credit for ENG 1A and Matriculation placement in ENG 1B</td>
<td>Area A2 3 units</td>
<td>6 units</td>
<td>Area 1A 3 units</td>
<td>5.3 units (max credit for both English Lang/Comp &amp; Lit/Comp)</td>
</tr>
<tr>
<td>English - Literature and Composition</td>
<td>Credit for ENG 1A and 2 elective units and Matriculation placement in ENG 1B</td>
<td>Area A2 and C2 6 units</td>
<td>6 units</td>
<td>Area 1A or 3B 3 units</td>
<td>5.3 units (max credit for both English Lang/Comp &amp; Lit/Comp)</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3 units towards Natural Sciences GE requirement including lab</td>
<td>Area B1 and B3 4 units</td>
<td>4 units</td>
<td>Area 5A and 5C (lab) 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td>Advanced Placement Exam</td>
<td>Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units</td>
<td>CSU GE Certification Area/Semester Units</td>
<td>CSU Minimum Admission Semester Units</td>
<td>IGETC Certification Area/Semester Units</td>
<td>UC Admissions Semester Units</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
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<td>----------------------------------------</td>
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<td>-----------------------------</td>
</tr>
<tr>
<td>French - Language &amp; Culture</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Area 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>French - Literature</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units (Only applies if taken before Fall 2009)</td>
<td>6 units (Only applies if taken before Fall 2009)</td>
<td>Area 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>German - Language &amp; Culture</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Area 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Government and Politics - United States</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Area 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Government and Politics - Comparative</td>
<td>3 units towards Social/Behavioral Sciences GE requirement</td>
<td>Area D8 3 units</td>
<td>3 units</td>
<td>Area 4H and US 2 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td>History - United States</td>
<td>5 units towards Social/Behavioral Sciences GE requirement with a score of 3 or 4. Credit for PS 12 with a score of 5</td>
<td>(C2 &amp; US 1) or (D6 &amp; US 1) 3 units</td>
<td>6 units</td>
<td>Area 3B or 4F and US 1 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>History - European</td>
<td>5 units towards Social/Behavioral Sciences GE requirement</td>
<td>Area C2 or D6 3 units</td>
<td>6 units</td>
<td>Area 3B or 4F 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>History - World</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 or D6 3 units</td>
<td>6 units</td>
<td>Area 3B or 4F 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Human Geography</td>
<td>3 units towards Social/Behavioral Sciences GE requirement</td>
<td>Area D5 3 units</td>
<td>3 units</td>
<td>Area 4E 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td>Italian - Language &amp; Culture</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Area 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Japanese - Language &amp; Culture</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Area 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td>Latin - Vergil</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units (Only applies if taken before Fall 2012)</td>
<td>3 units (Only applies if taken before Fall 2012)</td>
<td>Area 3B and 6A 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td>Latin - Literature</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units (6 only applies if taken before Fall 2009)</td>
<td>6 units (Only applies if taken before Fall 2009)</td>
<td>Area 3B and 6A 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td>Latin</td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Area 3B and 6A</td>
<td></td>
</tr>
<tr>
<td>Advanced Placement Exam</td>
<td>Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units</td>
<td>CSU GE Certification Area/Semester Units</td>
<td>CSU Minimum Admissions Semester Units</td>
<td>IGETC Certification Area/Semester Units</td>
<td>UC Admissions Semester Units</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------------------------------------------------</td>
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<td>----------------------------------------</td>
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<td>-------------------------------</td>
</tr>
<tr>
<td><strong>Mathematics - Calculus AB Exam</strong></td>
<td>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.</td>
<td>Area B4 3 units</td>
<td>3 units (Only one Calculus AP exam applied toward degree)</td>
<td>Area 2A 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td><strong>Mathematics - Calculus BC Exam</strong></td>
<td>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.</td>
<td>Area B4 3 units</td>
<td>6 units (Only one Calculus AP exam applied toward degree)</td>
<td>Area 2A 3 units <strong>Calculus AB/BC subscore</strong></td>
<td>5.3 Semester unit max credit both exams.</td>
</tr>
<tr>
<td><strong>Music Theory</strong></td>
<td>5 units towards Fine Arts GE requirement</td>
<td>Area C1 3 units (Only applies if taken before 09)</td>
<td>6 units (Only applies if taken before F'09)</td>
<td>N/A</td>
<td>5.3</td>
</tr>
<tr>
<td><strong>Physics 1</strong></td>
<td>Credit for PHYS 2A</td>
<td>Areas B1 and B3 4 units max towards GE for all three Physics exams</td>
<td>6 units max towards GE for all three physics exams</td>
<td>Area 5A and 5C (lab) 4 units</td>
<td>5.3 max for all three Physics exams</td>
</tr>
<tr>
<td><strong>Physics 2</strong></td>
<td></td>
<td></td>
<td></td>
<td>Area 5A and 5C (lab)</td>
<td></td>
</tr>
<tr>
<td><strong>Physics C - Mechanics</strong></td>
<td>3 units towards Natural Science GE requirement including Lab</td>
<td>Areas B1 &amp; B3 4 units</td>
<td>4 units</td>
<td>Area 5A and 5C (lab) 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td><strong>Physics C - Electricity/ Magnetism</strong></td>
<td>3 units towards Natural Science GE requirement including Lab</td>
<td>Areas B1 &amp; B3 4 units</td>
<td>4 units</td>
<td>Area 5A and 5C (lab) 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
<td>3 units towards Social/Behavioral Science GE with a score of 3. Credit for PSYC 1 with a score of 4 or 5. See Counselor for UC/CSU major applicability</td>
<td>Area D9 3 units</td>
<td>3 units</td>
<td>Area 4I 3 units</td>
<td>2.7 units</td>
</tr>
<tr>
<td><strong>Spanish - Language and Culture</strong></td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Areas 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td><strong>Spanish - Literature and Culture</strong></td>
<td>3 units towards Humanities GE requirement</td>
<td>Area C2 3 units</td>
<td>6 units</td>
<td>Areas 3B and 6A 3 units</td>
<td>5.3 units</td>
</tr>
<tr>
<td><strong>Statistics</strong></td>
<td>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</td>
<td>Area B4 3 units</td>
<td>3 units</td>
<td>Area 2A 3 units</td>
<td>2.7 units</td>
</tr>
</tbody>
</table>

**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
### College Credit for International Baccalaureate Exams (IB Exams)

For Saddleback College AA/AS and IGETC credit, a minimum score of 5 is required. For CSU GE credit, see chart below for minimum score required.

<table>
<thead>
<tr>
<th>EXAM</th>
<th>SADDLEBACK COLLEGE AA/AS CREDIT FOR GE</th>
<th>CSU GE Passing Score</th>
<th>CSU GE</th>
<th>CSU - UNITS EARNED TOWARD TRANSFER</th>
<th>IGETC</th>
<th>UC - UNITS EARNED TOWARD TRANSFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB BIOLOGY HL</td>
<td>3 Natural Science No Lab</td>
<td>5</td>
<td>AREA B2 (without Lab) 3 sem. units</td>
<td>6 sem. units</td>
<td>AREA 5B (without Lab) 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB CHEMISTRY HL</td>
<td>3 Natural Science No Lab</td>
<td>5</td>
<td>AREA B1 (without Lab) 3 sem. units</td>
<td>6 sem. units</td>
<td>AREA 5A (without Lab) 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB ECONOMICS HL</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>5</td>
<td>AREA D2 3 sem. units</td>
<td>6 sem. units</td>
<td>AREA 4B 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB GEOGRAPHY HL</td>
<td>3 Natural Science</td>
<td>5</td>
<td>AREA D5 3 sem. units</td>
<td>6 sem. units</td>
<td>AREA 4E 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB HISTORY (ANY REGION) HL</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>5</td>
<td>AREA C2 or D6 3 sem. units</td>
<td>6 sem. units</td>
<td>AREA 3B or 4F 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB LANGUAGE A1 (ENGLISH) HL</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>4</td>
<td>AREA C2* 3 sem. units</td>
<td>6 sem. units*</td>
<td>AREA 3B 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB LANGUAGE A1 (ANY OTHER LANGUAGE) HL</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>4</td>
<td>AREA C2* 3 sem. units</td>
<td>6 sem. units*</td>
<td>AREA 3B and 6A 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB LANGUAGE A2 (ENGLISH) HL</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>4</td>
<td>AREA C2* 3 sem. units</td>
<td>6 sem. units*</td>
<td>AREA 3B 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB LANGUAGE A2 (ANY OTHER LANGUAGE) HL</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>4</td>
<td>AREA C2* 3 sem. units</td>
<td>6 sem. units*</td>
<td>AREA 3B and 6A 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB LANGUAGE B (ANY LANGUAGE) HL</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>4</td>
<td>AREA B4* 3 sem. units</td>
<td>6 sem. units*</td>
<td>AREA 2A 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB MATHEMATICS HL</td>
<td>3 Mathematics Area 2B</td>
<td>4</td>
<td>AREA B1 (without Lab) 3 sem. units</td>
<td>6 sem. units</td>
<td>AREA 5A (without Lab) 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB PHYSICS</td>
<td>3 Natural Science No Lab</td>
<td>5</td>
<td>AREA D9 3 sem. units</td>
<td>3 sem. units</td>
<td>AREA 4J 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB PSYCHOLOGY</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>5</td>
<td>AREA C1* 3 sem. units</td>
<td>6 sem. units*</td>
<td>AREA 3A 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
<tr>
<td>IB THEATRE HL</td>
<td>3 Fine Arts and Humanities Area 1A</td>
<td>4</td>
<td>AREA C1* 3 sem. units</td>
<td>6 sem. units*</td>
<td>AREA 3A 3 sem. units</td>
<td>5.3 sem. units</td>
</tr>
</tbody>
</table>

**CSU GE:** The IB examinations may be incorporated into the certification of CSU General Education Breath requirements by any certifying institution. All CSU campuses will accept the minimum units shown and apply them toward fulfillment of the Education Breath requirements.

**IGETC:** IB exams must be used in area indicated regardless of where the certifying CCC's discipline is located. Students who earn credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both.

University of California gives elective credit for additional IB exams posed on [http://admission.universityofcalifornia.edu/counselors/exam-credit/ib-credits/index.html](http://admission.universityofcalifornia.edu/counselors/exam-credit/ib-credits/index.html)
Alternative Credit Options

CSU: General Education Certification—AP/IB 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/IB Exam Credit
All University of California (UC) campuses will accept the minimum units as stipulated above toward full or partial IGETC certification. The UC campus to which the student is transferring determines the applicability of the examination to other campus specific graduation requirements including the major.

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.

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 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.

Located in the VETS Center, the Saddleback College Veterans Counselor is available for scheduled appointments and walk in sessions. This specialized Veterans Counselor is your primary source of information regarding academic planning, Veteran’s resources, and career and personal counseling. In addition, the Saddleback Veterans Counselor is your resource for student education planning (SEP) required to start receiving VA educational benefits. Questions regarding course selection and academic requirements may be addressed through this source.

English Equivalency Examination
Students who have passed the California State University English Equivalency Examination are awarded four semester units of ENG 1A and three semester units of ENG 25 upon completion of one semester in residence.

College-Level Examination Program (CLEP)
Saddleback College accepts CLEP exams as credit for some General Education. CLEP is not accepted as a waiver for the English or math Placement Examination.

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 can be used for general education certification of the CSU General Education requirements. CLEP cannot be used for general education certification of Intersegmental General Education transfer (IGETC) requirements (see CLEP chart). Any credit awarded does not necessarily transfer to other colleges. Students seeking to use CLEP credit for college transfer purposes will need to consult the transfer institution regarding its policy pertaining to CLEP.

No credit will be given to CLEP in any area in which the student has earned college credit prior to completion of CLEP examinations. Credit is awarded upon completion of one semester in the South Orange County Community College District. Additional information regarding the College Level Examination Program may be obtained in the counseling office.

College Credit for CLEP Exams

<table>
<thead>
<tr>
<th>EXAM</th>
<th>SADDLEBACK COLLEGE AA/ AS CREDIT FOR GE</th>
<th>MINIMUM SEMESTER TRANSFER CREDITS EARNED</th>
<th>CSU CERTIFICATION AREA/ SEMESTER UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEP American Government</td>
<td>3 Social and Behavioral Sciences Area 3B</td>
<td>3</td>
<td>Area B8 3</td>
</tr>
<tr>
<td>CLEP American Literature</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>3</td>
<td>Area C2 3</td>
</tr>
<tr>
<td>CLEP Analyzing and Interpreting Literature</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>3</td>
<td>Area C2 3</td>
</tr>
<tr>
<td>CLEP Biology</td>
<td>Undergoing Department Review</td>
<td>3</td>
<td>Area B2 3</td>
</tr>
<tr>
<td>EXAM</td>
<td>SADDLEBACK COLLEGE AA/AS CREDIT FOR GE</td>
<td>MINIMUM SEMESTER TRANSFER CREDITS EARNED</td>
<td>CSU CERTIFICATION AREA/ SEMESTER UNITS</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td>------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>CLEP Calculus</td>
<td>3 Mathematics Area 2B Placement MATH 3B</td>
<td>3</td>
<td>Area B4 3</td>
</tr>
<tr>
<td>CLEP Chemistry</td>
<td>Undergoing Department Review</td>
<td>3</td>
<td>Area B1 3</td>
</tr>
<tr>
<td>CLEP College Algebra</td>
<td>3 Mathematics Area 2B Placement Transfer Level Math</td>
<td>3</td>
<td>Area B4 3</td>
</tr>
<tr>
<td>CLEP College Algebra - Trigonometry</td>
<td>3 Mathematics Area 2B Placement Transfer Level Math</td>
<td>3</td>
<td>Area B4 3</td>
</tr>
<tr>
<td>CLEP College Mathematics</td>
<td></td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP English Composition (No Essay)</td>
<td></td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP English Composition with Essay</td>
<td></td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP English Literature</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>3</td>
<td>Area C2 3</td>
</tr>
<tr>
<td>CLEP Financial Accounting</td>
<td></td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP French* Level I</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>6</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP French* Level II</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>12^</td>
<td>Area C2 3 with score of 59</td>
</tr>
<tr>
<td>CLEP Freshman College Composition</td>
<td></td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP German* Level I</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>6</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP German* Level II</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>12^</td>
<td>Area C2 3 with score of 60</td>
</tr>
<tr>
<td>CLEP History, United States I</td>
<td>3 Social and Behavioral Sciences Area 3B</td>
<td>3</td>
<td>D6 + US - 1 3</td>
</tr>
<tr>
<td>CLEP History, United States II</td>
<td>3 Social and Behavioral Sciences Area 3B OR 3 3A</td>
<td>3</td>
<td>D6 + US - 1 3</td>
</tr>
<tr>
<td>CLEP Human Growth and Development</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>3</td>
<td>Area E 3</td>
</tr>
<tr>
<td>CLEP Humanities</td>
<td>3 Fine Arts and Humanities Area 1B</td>
<td>3</td>
<td>Area C2 3</td>
</tr>
<tr>
<td>CLEP Information Systems and Computer Applications</td>
<td></td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP Introduction to Educational Psychology</td>
<td></td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>EXAM</td>
<td>SADDLEBACK COLLEGE AA/AS CREDIT FOR GE</td>
<td>MINIMUM SEMESTER TRANSFER CREDITS EARNED</td>
<td>CSU CERTIFICATION AREA/SEMESTER UNITS</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>----------------------------------------</td>
<td>------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>CLEP Introductory Business Law</td>
<td></td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP Introductory to Psychology</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>3</td>
<td>Area D9 3</td>
</tr>
<tr>
<td>CLEP Introductory to Sociology</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>3</td>
<td>Area D0 3</td>
</tr>
<tr>
<td>CLEP Natural Science</td>
<td>3 Natural Science including Lab</td>
<td>3</td>
<td>Area B1 or B2 3</td>
</tr>
<tr>
<td>CLEP Pre-Calculus</td>
<td>3 Mathematics</td>
<td>3</td>
<td>Area B4 3</td>
</tr>
<tr>
<td></td>
<td>Area 2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Placement Math 3A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEP Principles of Accounting</td>
<td></td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP Principles of Macro Economics</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>3</td>
<td>Area D2 3</td>
</tr>
<tr>
<td>CLEP Principles of Management</td>
<td></td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP Principles of Marketing</td>
<td></td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP Principles of Micro Economics</td>
<td>3 Social and Behavioral Sciences Area 3A</td>
<td>3</td>
<td>Area D2 3</td>
</tr>
<tr>
<td>CLEP Social Sciences and History</td>
<td></td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>CLEP Spanish* Level I</td>
<td>3 Fine Arts and Humanities</td>
<td>6</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Area 1B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEP Spanish* Level II</td>
<td>3 Fine Arts and Humanities</td>
<td>12^</td>
<td>Area C2 3 with score of 63</td>
</tr>
<tr>
<td></td>
<td>Area 1B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEP Trigonometry</td>
<td>3 Mathematics Area 2B</td>
<td>3</td>
<td>Area B4 3</td>
</tr>
<tr>
<td></td>
<td>Placement MATH 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEP Western Civilization I</td>
<td>3 Fine Arts and Humanities</td>
<td>3</td>
<td>Area C2 or D6 3</td>
</tr>
<tr>
<td></td>
<td>Area 1B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEP Western Civilization II</td>
<td>3 Fine Arts and Humanities</td>
<td>3</td>
<td>Area D6 3</td>
</tr>
<tr>
<td></td>
<td>Area 1B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Credit will be given for CLEP with a score of 50 unless otherwise noted. If a student passes more than one CLEP test in the same language other than English (e.g., two exams in French), then only one examination may be applied to the baccalaureate. For each test in a language other than English, a passing score of 50 is considered “Level I” and earns six units of baccalaureate credit; the higher score listed for each test is considered “Level II” and earns 6 additional units of credit and placement in Area C2 of GE Breadth. The total of 12 are earned^.*
Other Educational Opportunities

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 catalog "Gaucho Guide" is mailed three times per year. The "Gaucho Guide" details all class offerings and special events. For further information regarding Community Education, call 949-582-4646 or access our website at www.saddleback.edu/ce.

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.

Cooperative Work Experience
Saddleback College offers 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.

CTE Transitions – Programs for High School and Regional Occupational Program Students
Saddleback College maintains faculty-approved formal course articulation agreements with local CT (Career Technical) Transition high school and ROP (Regional Occupation Program) districts including: Capistrano Unified School District, Laguna Beach Unified School District, Saddleback Valley Unified School District, South Coast ROP and Coastline ROP. Courses with articulation agreements follow the California Career Statewide Pathways Templates in the areas including: Accounting, Architecture, Automotive Technology, Business, Child Development, Cinema-TV-Radio, Computer Information Management, Computer Maintenance Technology, Drafting, Fashion, Food & Nutrition, Graphic Design, Horticulture, Interior Design, Manufacturing, Photography, and Theater Arts. For a complete listing, see the CTE Transitions website at www.saddleback.edu/cte.

Emeritus Institute
The Emeritus Institute is a dynamic and comprehensive academic program designed to provide courses that will be of interest and value, primarily for the 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.

Students who complete a CT Transition articulated class offered through a partnering high school or ROP district and receive a grade of A or B, will be eligible to have Credit by Exam units for the corresponding Saddleback College class posted to their official transcript after completing a 12 unit minimum at Saddleback College. Eligible students should make an appointment with a Saddleback College counselor once they are enrolled at the college. The counselor will verify their Articulation Certificate and/or high school transcript, assist them in completing a CT Transition Petition form and submit the form to the Admissions & Records Office for processing. Contact the Counseling Department at (949) 582-4572 for further information.

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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 as well as Santander, Spain, and Salamanca, Spain. For more information and brochures contact the Liberal Arts division office at 949-582-4788 or access our website at www.saddleback.edu/la/study-abroad-program.
Graduation Requirements

Responsibility for filing a Petition for Graduation in the Office of Admissions and Records rests with the student. Official transcripts for any prior work must be on file for the coursework 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 transcripts used.

III. Residence Requirement: Of the 60 semester units required, at least 12 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.

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 Science Degree

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

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

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

III. Residence Requirement: Of the 60 semester units required, at least 12 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 in as described in on 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 Saddleback College catalog with the exception of Cosmetology, Ecological Restoration, Geographic Information Systems, Gerontology, Interiors Merchandising, and Inter Design Assistant.

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 or 1AH
   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 currently offered within the Mathematics Department, other than Math 351 or 353.

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: ENG 1B or 1BH, 70, 180, 190, 340^  
   Units earned for E 340 do not apply to the associate degree

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. A score of 35-39 percentile on the Comprehension section of the Nelson-Denny Reading Test, Form H or equivalent.
   4. A score of 30-37 on the CTEP Reading Test.

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.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>H 2 or 2H</td>
<td>ES (formerly CSS) 1*, 2*, 3*, 10*</td>
</tr>
<tr>
<td>BUS 102</td>
<td>FCS 115</td>
</tr>
<tr>
<td>CD 7</td>
<td>FN 50</td>
</tr>
<tr>
<td>CIM 1, 10</td>
<td>HIST 4, 5, 12, 16, 17, 32</td>
</tr>
<tr>
<td>CIMW 115</td>
<td>UJ 2 or 2H, 100, 101</td>
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<tr>
<td>DANC 64</td>
<td>N 176</td>
</tr>
<tr>
<td>ENG 1B OR 1BH, 70</td>
<td>PSYC 1 or 1H, 2 or 2H, 7</td>
</tr>
<tr>
<td>ENV 1, 18</td>
<td>SP 1, 2, 3</td>
</tr>
</tbody>
</table>

**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:

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

One course from the following:

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<td>SPAN 1 (or 1A and 1B), 2, 3, 4, 20A, 20B, 21A, 21C*</td>
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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 (Students are advised to complete the ANTH 1 Lab within one year of the lecture component)
   - GEOG 1 or 1H and 1L
   - ASTRO 20 and 25 combined
   - BIO 3A or 3AH, 3B or 3BH, 4A, 4B, 11, 15, 19, 20, 31, 113
   - HORT 20
   - CHEM 1A, 2, 3, 108
   - ENV 18, 23, 24
   - PHYS 1A, 1B, 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 or 2H, 3, 4*, 5, 7*, 8, 9, 10, 13, 14, 17, 21
   - BUS 1 or 1H
   - CD 7+, 15, 117*
   - CTVR 1
   - ECON 2 or 2H, 4 or 4H, 11, 20
   - ENV 1
   - ES 1*, 2*, 3*, 10*
   - GEOG 2 or 2H, 3, 38
   - HIST 12, 19, 20, 21*, 27, 28, 30, 33*, 61, 62, 63, 70, 71, 72, 74, 75, 80, 81*
   - HS 100, 120, 131*, 186
   - JRN 1
   - PS 4, 10H, 11, 12, 14
   - PSY 1 or 1H, 7+, 16*, 21, 125
   - SOC 1, 2, 6*, 10, 15, 21, 25, 125, 126+
   - SP 8, 20*
   - WS 10 or 10H, 40

   +Course may be listed in more than one area, but shall not be certified in more than one area

   **Group B. American Institutions**
   (Nursing Students who possess a Bachelor's degree are not held to the American Institutions requirements, per SB 1393)
   - HIST 7, 8, 16, 17, 22 or PS 1 or 1H

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
   - BUS 116
   - CD 7+, 117*
   - COUN 1, 140, 150, 151, 160
   - FCS 115, 142
   - FASH 141
   - FN 50, 64
   - HLTH 1, 3
   - HS 170, 175
   - N 161, 165
   - PSYC 5, 7+, 33
   - SOC 126+, 180
   - SPS 115, 205
   - WS 120

   +Course may be listed in more than one area, but shall not be certified in more than one area

   **Group B. Critical Thinking**
   - CD 120
   - ENG 1B or 1BH, 70 (both courses also apply for the Reading Competency requirement)
   - PHIL 12
   - SP 2, 3

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. **CULTURES IN THE UNITED STATES**
The Cultures in the United States requirement focuses on major themes in United States history, society, and culture and addresses major conceptual issues relevant to understanding ethnicity, culture, race, and pluralism in the United States. 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 Cultures in the United States requirement. Courses that will satisfy this requirement are marked with an asterisk (*).

**Nursing Equivalency** - Completion of the Nursing Program meets the Cultures in the US requirement

**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, 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. Nursing students who possess a Bachelor's degree are not held to the American Institutions requirement, per SB1393.

**Transfer Credit from Foreign Institutions**
Foreign transcripts must be evaluated by an accredited evaluation service and submitted to the Admissions and Records Office. The evaluation must include a detailed report that includes course, unit and GPA breakdowns in order for credit toward an associate degree petition to be considered. A list of acceptable accrediting agencies may be found at:

**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.

**Additional Associate Degrees and Certificates**
A student may earn multiple Associate Degrees and Certificates from Saddleback College. Each additional degree and Certificate of Achievement will be posted to the student's academic record and the student will receive diplomas for each degree and Certificate of Achievement earned. For additional degrees and certificates any course used to meet the prescribed graduation requirements may count toward more than one degree and certificate. Courses used for one major may be used to meet requirements for additional majors. Courses used to meet the competency requirements and general education requirements for the first degree may be used to fulfill these requirements for additional degrees, provided the student has maintained "continuous enrollment" (see Graduation Requirements and Student Catalog Rights). If a break in enrollment occurs, a student must comply with the competency, general education, and major requirements in effect at the time the student resumes attendance or those in effect in subsequent years of the student's enrollment.
Associate Degrees for Transfer

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

To complete the associate degree for transfer, students must complete:

1. A minimum of 60 CSU-transferable semester units;
2. A minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework (While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.);
3. A minimum of 18 semester units in an "AA-T" or "AS-T" major. All courses in the major must be completed with a grade of C or better or a "P" (pass) designation may be used instead of a letter grade, but not all transfer institutions will accept courses with a "P"; and
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

To view the most current list of Saddleback College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to californiacommunitycolleges.cccco.edu/Students/AssociateDegreeforTransfer.aspx. Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.
### Degrees, Certificates, and Awards

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<th>C.C.</th>
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### Program Options

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### Degree and Certificate Options

- **A.A.T.**: Associate in Arts for Transfer
- **A.A.**: Associate in Arts Degree
- **A.S.T.**: Associate in Science for Transfer
- **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)
- **O.S.A**: Occupational Skills Award – Vocational Program (6-17.9 Units)
- **C.C.**: Certificate of Completion (non credit ESL only)
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</table>
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.

Accounting Certificate Program
This program meets a substantial portion of the 24-unit Accounting course 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 such as Accounts Payable Clerk, Accounts Receivable Clerk, General Ledger Clerk or Bookkeeper. CPA EXAM AND LICENSURE: Please contact the California Board of Accountancy.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Prepare a set of basic financial statements.
• Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
• Demonstrate proficiency in processing the accounting cycle for a business.
• Demonstrate proficiency in communicating financial information in the subject area.
• Present an oral presentation in the designated subject area.

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<tr>
<th>Course ID</th>
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<td>ACCT 202A</td>
<td>INTERMEDIATE ACCOUNTING I</td>
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<td>INTERMEDIATE ACCOUNTING II</td>
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<td>PARTNERSHIP AND CORPORATE TAXATION</td>
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<td>LEGAL ENVIRONMENT AND BUSINESS LAW</td>
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Total Units for the Certificate: 26-27

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

Suggested coursework not required for the major: ACCT 210, ACCT 214, ACCT 215; BUS 1, 102, 103, 104, 125; CIM 1, 112; CIMN 100, 100A; CIMA 104, 106; 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Prepare a set of basic financial statements.
• Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
• Demonstrate proficiency in processing the accounting cycle for a business using popular accounting software.
• Demonstrate proficiency in communicating financial information in the subject area.
• Present an oral presentation in the designated subject area.

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<th>Title</th>
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<td>ACCT 1B</td>
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<td>or</td>
<td>ACCT 216* INDIVIDUAL INCOME TAX</td>
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<td>ACCT 221*</td>
<td>ACCOUNTING INFORMATION SYSTEMS</td>
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<td>CIMA 223B*</td>
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Select from Restricted Electives: 3

Total Units for the Certificate: 22.5

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.
Computerized Accounting Specialist, Associate in Science Degree 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate proficiency in processing the accounting cycle for a business using popular accounting software.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID | Title | Units
--- | --- | ---
ACCT 1A | FINANCIAL ACCOUNTING | 4
ACCT 1B* | MANAGERIAL ACCOUNTING | 4
ACCT 216* | INDIVIDUAL INCOME TAX | 4
ACCT 221* | ACCOUNTING INFORMATION SYSTEMS | 3
CIMA 104+ | SPREADSHEETS - EXCEL | 3
CIMA 223B* | COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED | 1.5

Select from Restricted Electives: 3

Total Units for the Major: 22.5

Restrict 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 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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: ACCT 202A, 202B, 203, 214, 215; BUS 102, 103, 104, 125; CIM 1, 112, CIMN 100, 100A, CIMA 104B*, 106; 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 or bookkeeper.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate applications of current federal and state tax law.
- Analyze basic tax information and prepare related tax returns.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID | Title | Units
--- | --- | ---
ACCT 1A | FINANCIAL ACCOUNTING | 4
ACCT 216* | INDIVIDUAL INCOME TAX | 4
ACCT 217* | PARTNERSHIP AND CORPORATE TAXATION | 3
BUS 13 | LEGAL ENVIRONMENT AND BUSINESS LAW | 3
CIMA 104+ | SPREADSHEETS - EXCEL | 3
CIMA 223A* | COMPUTERIZED ACCOUNTING - QUICKBOOKS—BEGINNING | 1.5
CIMA 223B* | COMPUTERIZED ACCOUNTING - QUICKBOOKS—ADVANCED | 1.5

Select from Restricted Electives: 3

Total Units for the Certificate: 21.5

Restricted Electives:

ACCT 215 GENERAL ACCOUNTING 3
ACCT 235 ENTREPRENEURIAL ACCOUNTING 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.

Suggested coursework not required for the major: ACCT 120, 202B, 203, 214; BUS 1, 102, 103, 104, 125; CIM 1, 10, 112, CIMN 100, 100A, CIMA 104B*, 106; ECON 2, 4.

Associate in Science Degree 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 or bookkeeper.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Prepare a set of basic financial statements.
- Calculate and analyze common ratios and numerical relationships that are produced through the accounting cycle.
- Demonstrate applications of current federal and state tax law.
- Analyze basic tax information and prepare related tax returns.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

Course ID | Title | Units
--- | --- | ---
ACCT 1A | FINANCIAL ACCOUNTING | 4
ACCT 216* | INDIVIDUAL INCOME TAX | 4
ACCT 217* | PARTNERSHIP AND CORPORATE TAXATION | 3
BUS 13 | LEGAL ENVIRONMENT AND BUSINESS LAW | 3
CIMA 104+ | SPREADSHEETS - EXCEL | 3
CIMA 223A* | COMPUTERIZED ACCOUNTING - QUICKBOOKS—BEGINNING | 1.5
CIMA 223B* | COMPUTERIZED ACCOUNTING - QUICKBOOKS—ADVANCED | 1.5

Select from Restricted Electives: 3

Total Units for the Major: 21.5

Restricted Electives:

ACCT 215 GENERAL ACCOUNTING 3
ACCT 235 ENTREPRENEURIAL ACCOUNTING 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.

Suggested coursework not required for the major: ACCT 120, 202B, 203, 214; BUS 1, 102, 103, 104, 125; CIM 1, 10, 112, CIMN 100, 100A, CIMA 104B*, 106; ECON 2, 4.
**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 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**
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.

Suggested coursework not required for the major: ACCT 120, 2028, 203, 214; BUS 1, 102, 103, 104, 125; CIM 1, 10, 112, CMIN 100, 100A, CIMA 104B*, 106; 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.

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<td>CIM 112</td>
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**Total Units for the Certificate:** 24

**Restricted Electives:**
- BUS 102 ORAL BUSINESS COMMUNICATIONS 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 227 Internet and Web Essentials 1.5
- CIM 271A/B Web Development: XHTML — Beginning/Advanced 1.5, 1.5
- CIM 272 Web 2.0 Design: Cascading Style Sheets 1.5
- CIM 278A/B Creating Web Pages: 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.

**Advanced Manufacturing Certificate Program**
Advanced Manufacturing addresses the competencies required by technical, engineering, and management professionals working in industry where products are designed and developed, with specific emphasis on manufacturing and model making, using Additive and Subtractive Manufacturing.

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, and medical modeling. Automotive, aerospace, defense, medical devices, and green technology are the primary industries within the advanced manufacturing sector. Classroom work in project design is combined with learning laboratory experience utilizing project-based learning. Students will gain valuable hands-on experience using some of the most advanced equipment available. This is a high unit major and students may not be able to complete the associate degree within two years.

**Program Student Learning Outcomes**
Students who complete this program will be able to:
- Communicate designs in at least one of the languages of mechanical drafting used in manufacturing design: AutoCAD, Solidworks, or Mastercam.
- Demonstrate use of machines commonly found in manufacturing and in rapid prototyping.
- Demonstrate a working knowledge by hands on problem solving of model making, mold making, and casting processes used in manufacturing.

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

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 103</td>
<td>BUSINESS ENGLISH</td>
<td>3</td>
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<tr>
<td>CIM 1</td>
<td>COMPUTER INFORMATION SYSTEMS</td>
<td>4</td>
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<tr>
<td>or</td>
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<tr>
<td>CIM 10</td>
<td>INTRODUCTION TO INFORMATION SYSTEMS</td>
<td>3</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 112</td>
<td>MICROSOFT OFFICE</td>
<td>3</td>
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<tr>
<td>CIM 121C*</td>
<td>KEYBOARDING FOR COMPUTERS - ADVANCED</td>
<td>1.5</td>
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</table>

**Total Units for the Major:** 24

**Restricted Electives:**
- BUS 102 ORAL BUSINESS COMMUNICATIONS 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 227 Internet and Web Essentials 1.5
- CIM 271A/B Web Development: XHTML — Beginning/Advanced 1.5, 1.5
- CIM 272 Web 2.0 Design: Cascading Style Sheets 1.5
- CIM 278A/B Creating Web Pages: 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 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 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**
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.

Suggested coursework not required for the major: ACCT 120, 2028, 203, 214; BUS 1, 102, 103, 104, 125; CIM 1, 10, 112, CMIN 100, 100A, CIMA 104B*, 106; ECON 2, 4.

**Advanced Manufacturing Certificate Program**
Advanced Manufacturing addresses the competencies required by technical, engineering, and management professionals working in industry where products are designed and developed, with specific emphasis on manufacturing and model making, using Additive and Subtractive Manufacturing.

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, and medical modeling. Automotive, aerospace, defense, medical devices, and green technology are the primary industries within the advanced manufacturing sector. Classroom work in project design is combined with learning laboratory experience utilizing project-based learning. Students will gain valuable hands-on experience using some of the most advanced equipment available. This is a high unit major and students may not be able to complete the associate degree within two years.

**Program Student Learning Outcomes**
Students who complete this program will be able to:
- Communicate designs in at least one of the languages of mechanical drafting used in manufacturing design: AutoCAD, Solidworks, or Mastercam.
- Demonstrate use of machines commonly found in manufacturing and in rapid prototyping.
- Demonstrate a working knowledge by hands on problem solving of model making, mold making, and casting processes used in manufacturing.
Advanced Manufacturing

Associate in Science Degree Program

Advanced Manufacturing addresses the competencies required by technical, engineering, and management professionals working in industry where products are designed and developed, with specific emphasis on manufacturing and model making, using Additive and Subtractive Manufacturing.

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, and medical modeling. Automotive, aerospace, defense, medical devices, and green technology are the primary industries within the advanced manufacturing sector. Classroom work in project design is combined with learning laboratory experience utilizing project-based learning. Students will gain valuable hands-on experience using some of the most advanced equipment available. This is a high unit major and students may not be able to complete the associate degree within two years.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate designs in at least one of the languages of mechanical drafting used in manufacturing design: AutoCAD and/or Solidworks.
- Use machines commonly found in manufacturing and in rapid prototyping.
- Demonstrate a working knowledge of model making, mold making, and casting processes used in manufacturing.

Course ID   Title                               Units
DR 50*      INTRODUCTION TO COMPUTER-AIDED DRAFTING  3

or
ARCH 50*    INTRODUCTION TO COMPUTER-AIDED DRAFTING  3

or
DR 152*     ADVANCED COMPUTER-AIDED DESIGN          3

or
ARCH 152*   ADVANCED COMPUTER-AIDED DESIGN          3

or
MFG 204*    3D COMPUTER AIDED DESIGN - SOLIDWORKS  3

or
DR 200*     3D PARAMETRIC MODELING - SOLIDWORKS     3

or
MFG 200*    INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY  3

MFG 207     CNC COMPUTER NUMERICAL CONTROL PROGRAMMING I  3

MFG 201*    ADVANCED CAD MODEL MAKING AND TOOLING   2

MFG 202     INDUSTRIAL MATERIALS                   2

MFG 203     INTRODUCTION TO MANUFACTURING PROCESSES  2

DR 202*     GEOMETRIC DIMENSIONING AND TOLERANCING   3

MFG 208*    CNC COMPUTER NUMERICAL CONTROL PROGRAMMING II  3

MFG 205     SILICONE AND URETHANE MOLD MAKING      3

MFG 206     RESIN AND FOAM CASTING                 3

Select one course from Restricted Electives 2-3

Total Units for the Certificate: 35-36

Restricted Electives: Select one of the following courses

DR 201*     ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS  3

DR 51*      COMPUTER-AIDED DRAFTING                  3

or
ARCH 51     COMPUTER-AIDED DRAFTING                  3

ET 201      ROBOTICS FUNDAMENTALS                    2

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

Associate in Science Degree

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

General Education Requirements for Associate Degrees

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.

American Sign Language Certificate Program

The American Sign Language (ASL) program is designed to prepare the student to be able to communicate with the Deaf Community in a variety of settings. Proficiency in ASL is valuable to professionals in special education, health sciences, audiology, and speech therapy.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate the skills needs to communicate with the Deaf community at a basic to native level.
- Show in-depth knowledge about the Deaf community and their culture.
- Competently interact with native signers.

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

Total Units for the Certificate: 19

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

American Sign Language Associate in Science Degree Program

The American Sign Language (ASL) program is designed to prepare the student to be able to communicate with the Deaf Community in a variety of settings. Proficiency in ASL is valuable to professionals in special education, health sciences, audiology, and speech therapy.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate the skills needs to communicate with the Deaf community at a basic to native level.
- Show in-depth knowledge about the Deaf community and their culture.
- Competently interact with native signers.

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

Total Units for the Major: 19

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

Associate in Science Degree

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

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: SOC 1.

Anthropology

Associate in Arts Degree

Anthropology is a diverse discipline that investigates the biological and cultural life of human beings in all times and in all places. An anthropology degree provides students with an appreciation of other ways of life and different systems of belief, and perhaps most importantly, a better understanding of the world in which they live. The curriculum in the Anthropology program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Anthropology degree by providing the necessary breadth in the field and an introduction to the methods used. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree in anthropology, which can be achieved through transfer, is recommended for those considering professional careers.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the breadth of anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines.
- Demonstrate an understanding of the historical development of the discipline and the centrality of the four-field approach in American anthropology.
- Explain the basic processes of human biological evolution.
- Describe modern human biological diversity and articulate an informed position on the question of race.
- Define and critically analyze the concepts of culture and cultural relativism.
- Demonstrate the ability to think holistically and comparatively in describing human cultural diversity.
- Demonstrate an understanding of the processes of social and cultural change through time.
- Discuss the politics of inclusion and exclusion both locally and globally.
- Articulate an anthropological perspective in relation to contemporary issues and concerns.
- Discuss the importance of the scientific method in anthropological research.
- Identify the correct methods for the undertaking of biological, ethnographic, linguistic, and/or archaeological research.
- Identify the ethical responsibilities and concerns in the conducting of anthropological research.
- Write concisely and logically, incorporating relevant data and knowledge.
- Critically evaluate information sources about different peoples and cultures.

Course ID Title Units
ANTH 1 BIOLOGICAL ANTHROPOLOGY 3
ANTH 2 CULTURAL ANTHROPOLOGY 3
ANTH 3* CULTURE AND LANGUAGE 3
ANTH 4 NATIVE AMERICAN INDIAN CULTURES 3
ANTH 5 ANTHROPOLOGY OF LATIN AMERICAN CULTURE, IDENTITY, AND POWER 3
ANTH 6* GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE 3
ANTH 7 PERSPECTIVE INDIANS OF SOUTHERN CALIFORNIA 3
ANTH 8 WORLD PREHISTORY 3
ANTH 9 INTRODUCTION TO ARCHAEOLOGY 3
ANTH 10 CELTIC CULTURES 3
ANTH 11 MAGIC, WITCHCRAFT, AND RELIGION 3
ANTH 12 INTRODUCTION TO VISUAL CULTURE 3
ANTH 13 THE WORLD OF PRIATES 3
ANTH 14 THE BIOLOGICAL EVOLUTION OF HUMAN NATURE 3
ANTH 15 WOMEN, GENDER, AND CULTURE – CROSS-CULTURAL PERSPECTIVES 3
ANTH 16 FORENSIC ANTHROPOLOGY 3
ES 1 MULTICULTURAL EXPERIENCES IN THE UNITED STATES 3
ES 3 INTRODUCTION TO CHICANO(A) AND LATINO(A) CULTURES 3

Total Units for the Major: 18

Restricted Electives:

ANTH 20 ES 2 ES 3 ES 4

Total Units for the Major: 18

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

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: BIO 11*, BIO 22*, BIO 40; ES 1, 2; GEOG 2; HIST 20/SOC 20; MATH 10*; PSYC 16*; SOC 1.
Associate in Arts Degree in Anthropology for Transfer

The curriculum in the Anthropology program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Anthropology for Transfer degree by providing the necessary breadth in the field and, an introduction to the methods used. Students who complete the Associate in Arts Degree in Anthropology for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Describe the breadth of anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines.
- Demonstrate an understanding of the historical development of the discipline and the centrality of the four-field approach in American anthropology.
- Explain the basic processes of human biological evolution.
- Describe modern human biological diversity and articulate an informed position on the question of race.
- Define and critically analyze the concepts of culture and cultural relativism.
- Demonstrate the ability to think holistically and comparatively in describing human cultural diversity.
- Demonstrate an understanding of the processes of social and cultural change through time.
- Discuss the politics of inclusion and exclusion both locally and globally.
- Articulate an anthropological perspective in relation to contemporary issues and concerns.
- Discuss the importance of the scientific method in anthropological research.
- Identify the correct methods of the undertaking of biological, ethnographic, linguistic, and/or archaeological research.
- Identify the ethical responsibilities and concerns in the conducting of anthropological research.
- Write concisely and logically, incorporating relevant data and knowledge.
- Critically evaluate information sources about different peoples and cultures.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ANTH 2</td>
<td>CULTURAL ANTHROPOLOGY</td>
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<tr>
<td>ANTH 1</td>
<td>BIOLOGICAL ANTHROPOLOGY</td>
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<tr>
<td>ANTH 9</td>
<td>INTRODUCTION TO ARCHAEOLOGY</td>
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<tr>
<td>Group A: Select one of the following courses (3 units)</td>
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<tr>
<td>ANTH 3*</td>
<td>CULTURE AND LANGUAGE</td>
<td>3</td>
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<td>ANTH 13</td>
<td>MAGIC, WITCHCRAFT, AND RELIGION</td>
<td>3</td>
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<tr>
<td>Group B: Select one of the following courses or any course from Group A not already used (3-4 units)</td>
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<tr>
<td>BIO 11*</td>
<td>HUMAN ANATOMY</td>
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<tr>
<td>GEOL 1</td>
<td>INTRODUCTION TO PHYSI GEOLGY</td>
<td>4</td>
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<tr>
<td>GEOL 20</td>
<td>INTRODUCTION TO EARTH SCIENCE</td>
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<tr>
<td>GEOL 23</td>
<td>ENVIRONMENTAL GEOLOGY</td>
<td>4</td>
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<td>Group C: Select from the courses below or any course from Group A or Group B not already used (3-4 units)</td>
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<tr>
<td>ANTH 11*</td>
<td>BIOLOGICAL ANTHROPOLOGY LABORATORY</td>
<td>1</td>
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<tr>
<td>ANTH 4</td>
<td>NATIVE AMERICAN INDIAN CULTURES</td>
<td>3</td>
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<tr>
<td>ANTH 5</td>
<td>ANTHROPOLOGY OF LATIN AMERICA-CULTURE, IDENTITY, AND POWER</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 6*</td>
<td>GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 7</td>
<td>INDIANS OF SOUTHERN CALIFORNIA</td>
<td>3</td>
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<tr>
<td>ANTH 8</td>
<td>WORLD PREHISTORY</td>
<td>3</td>
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<tr>
<td>ANTH 10</td>
<td>CELTIC CULTURES</td>
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</tr>
<tr>
<td>ANTH 13</td>
<td>MAGIC, WITCHCRAFT, AND RELIGION</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 14</td>
<td>INTRODUCTION TO VISUAL CULTURE</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 15</td>
<td>THE WORLD OF PRIMATES</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 16*</td>
<td>ARCHAEOLOGICAL FIELD METHODS</td>
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<td>ANTH 17</td>
<td>THE BIOLOGICAL EVOLUTION OF HUMAN NATURE</td>
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<td>ANTH 21</td>
<td>WOMEN, GENDER, AND CULTURE - CROSS-CULTURAL PERSPECTIVES</td>
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<td>ANTH 100</td>
<td>FORENSIC ANTHROLOGY</td>
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<tr>
<td>ES 3</td>
<td>INTRODUCTION TO CHICANA(O)AND LATIN(A) CULTURES</td>
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</tbody>
</table>

Total Units for the Major: 18-20

*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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Communicate designs in the 3 languages of architectural visualization: Board Drafting, AutoCAD, and Revit.
- Demonstrate knowledge of at least 7 of the major periods of architectural history: Ancient Egyptian, Ancient Greek, Ancient Roman, Byzantine, Romanesque, Gothic, Renaissance, Baroque, Neoclassical, Craftsman, Art Noveau, Art Deco, Modern, and Contemporary Architecture.
- Demonstrate knowledge of current construction materials and techniques for residential and commercial construction.
- Write contract documents used in the architecture, engineering and construction industry.

<table>
<thead>
<tr>
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<th>Title</th>
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<tr>
<td>First Year</td>
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<tr>
<td>ARCH 10</td>
<td>INTRODUCTION TO ARCHITECTURE</td>
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<td>ARCH 12</td>
<td>HISTORY OF ARCHITECTURE</td>
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<tr>
<td>ARCH 50*</td>
<td>INTRODUCTION TO COMPUTER-AIDED DRAFTING</td>
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<tr>
<td>or</td>
<td>DR 50* INTRODUCTION TO COMPUTER-AIDED DRAFTING</td>
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<td>ARCH 51*</td>
<td>COMPUTER-AIDED DRAFTING</td>
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<td>or</td>
<td>DR 51* COMPUTER-AIDED DRAFTING</td>
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<td>ARCH 124A</td>
<td>ARCHITECTURAL DRAWING I</td>
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<td>ARCH 218</td>
<td>FOUNDERATION STUDIO IN ARCHITECTURE</td>
<td>4</td>
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<tr>
<td>ARCH 219*</td>
<td>RESIDENTIAL AND COMMERCIAL SPACE PLANNING</td>
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<tr>
<td>ARCH 220*</td>
<td>REVIT AND BUILDING INFORMATION MANAGEMENT(BIM)</td>
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<tr>
<td>Second Year</td>
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<tr>
<td>ARCH 34*</td>
<td>BASIC ARCHITECTURAL DESIGN I</td>
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<td>ARCH 42*</td>
<td>DESCRIPTIVE DRAWING AND PERSPECTIVE</td>
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<td>ARCH 122</td>
<td>ARCHITECTURAL PRACTICE</td>
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<td>ARCH 124B*</td>
<td>ARCHITECTURAL DRAWING II</td>
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<td>ARCH 124C*</td>
<td>ARCHITECTURAL DRAWING III</td>
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<tr>
<td>ARCH 126</td>
<td>MATERIALS AND METHODS OF CONSTRUCTION</td>
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<tr>
<td>Select from Restricted Electives 3-6</td>
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Total Units for the Certificate: 49-52

Restricted Electives

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<tr>
<td>ARCH 44*</td>
<td>ARCHITECTURAL PRESENTATION AND RENDERING</td>
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</table>
ARCH 132* RESIDENTIAL PLANNING, PRINCIPLES AND DESIGN 3
ARCH 152* ADVANCED COMPUTER-AIDED DESIGN 3
or
DR 152* ADVANCED COMPUTER-AIDED DESIGN 3
ARCH 161 BLUEPRINT PLANS AND SPECIFICATION READING 4
ARCH 163 INTERNATIONAL BUILDING CODE INSPECTION 4
ARCH 164* COMBINATION RESIDENTIAL DWELLING INSPECTION 4
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 221* ADVANCED REVIT AND BUILDING INFORMATION MANAGEMENT II 4
ARCH 260 Architecture in Northern California 1.5
ARCH 261 Orange and San Diego Architecture 1.5
ARCH 262 Los Angeles Architecture 1.5
DR 200* 3D PARAMETRIC MODELING - SOLIDWORKS 3
MFG 200* INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY 3
MFG 201* ADVANCED CAD MODEL MAKING AND TOOLING 2

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

Architectural Drafting
Associate in Science Degree 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.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Communicate designs in the 3 languages of architectural visualization: Board Drafting, AutoCAD, and Revit.
- Demonstrate knowledge of at least 7 of the major periods of architectural history: Ancient Egyptian, Ancient Greek, Ancient Roman, Byzantine, Romanesque, Gothic, Renaissance, Baroque, Neoclassical, Craftsman, Art Noveau, Art Deco, Modern, and Contemporary Architecture.
- Demonstrate knowledge of current construction materials and techniques for residential and commercial construction.
- Write contract documents used in the architecture, engineering and construction industry.

Course ID | Title | Units
--- | --- | ---
ARCH 10 | INTRODUCTION TO ARCHITECTURE | 2
ARCH 12 | HISTORY OF ARCHITECTURE | 3
ARCH 50* | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 3
or
DR 50* | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 3
ARCH 51* | COMPUTER-AIDED DRAFTING | 3
or
DR 51* | COMPUTER-AIDED DRAFTING | 3
ARCH 124A | ARCHITECTURAL DRAWING I | 4
ARCH 218 | FOUNDATION STUDIO IN ARCHITECTURE | 4
ARCH 219* | RESIDENTIAL AND COMMERCIAL SPACE PLANNING | 4
ARCH 220* | REVIT AND BUILDING INFORMATION MANAGEMENT (BIM) | 4
ARCH 34* | BASIC ARCHITECTURAL DESIGN I | 3

ARCH 132* RESIDENTIAL PLANNING, PRINCIPLES AND DESIGN 3
ARCH 152* ADVANCED COMPUTER-AIDED DESIGN 3
or
DR 152* ADVANCED COMPUTER-AIDED DESIGN 3
ARCH 161 BLUEPRINT PLANS AND SPECIFICATION READING 4
ARCH 163 INTERNATIONAL BUILDING CODE INSPECTION 4
ARCH 164* COMBINATION RESIDENTIAL DWELLING INSPECTION 4
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 221* ADVANCED REVIT AND BUILDING INFORMATION MANAGEMENT II 4
ARCH 260 ARCHITECTURE IN NORTHERN CALIFORNIA 1.5
ARCH 261 ORANGE AND SAN DIEGO ARCHITECTURE 1.5
ARCH 262 LOS ANGELES ARCHITECTURE 1.5
DR 200* 3D PARAMETRIC MODELING - SOLIDWORKS 3
MFG 200* INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY 3
MFG 201* ADVANCED CAD MODEL MAKING AND TOOLING 2

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

Associate in Science Degree

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

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: ARCH 44, ARCH 136; ART 40, ART 41, ART 80

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.

Program Student Learning Outcomes

- Students who complete this program will be able to:
  - Demonstrate working knowledge of either the locally adopted International Building Code or the Residential Building Code.
  - Apply inspection techniques required in one of the following areas: concrete inspection, plumbing inspection, mechanical inspection, electrical inspection, general building code inspection.
  - Demonstrate knowledge of current construction materials and techniques for residential and commercial construction.
The curriculum in the Art Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree in the field of art through experience in the studio arts, exhibition design, and art history. Students develop practical skills that translate into a higher level of qualification for employment in the areas of illustration, animation, web design, graphic design, architecture, art education, fashion, interior design, museum studies, art sales, and many other areas.

Demonstrate skills to pursue lifelong learning in the areas of art history and studio arts.

### Construction Inspection

#### Associate in Science Degree 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.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate working knowledge of either the locally adopted International Building Code or the Residential Building Code.
- Apply inspection techniques required in one of the following areas: concrete inspection, plumbing inspection, mechanical inspection, electrical inspection, general building code inspection.
- Demonstrate knowledge of current construction materials and techniques for residential and commercial construction.

#### 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 CODE - HEATING, AC, REFRIGERATION, AND DUCTWORK | 3

**Total Units for the Certificate:** 23

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

### Associate in Arts Degree Program

The curriculum in the Art History program is designed to provide the necessary breadth in the field and an introduction to the methods used. The Associate in Arts in Art History for Transfer degree fulfills general education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

#### Course ID | Title | Units
--- | --- | ---
ART 40 | 2-D FOUNDATIONS | 3
ART 41* | THREE-DIMENSIONAL DESIGN | 3
ART 50* | PAINTING - I | 3
ART 80 | DRAWING I | 3

**Total Units for the Major:** 33

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

#### Associate in Arts Degree in Art History for Transfer

The curriculum in the Art History program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Art History for Transfer degree by providing the necessary breadth in the field and an introduction to the methods used. The Associate in Arts in Art History for Transfer degree fulfills general education requirements for the college, encourages humanistic learning across disciplines and also provides a foundation for all students looking to transfer to a baccalaureate institution as an Art History or Studio Art major.

The Associate in Arts in Art History for Transfer provides training for students seeking a career in the arts including museums, galleries, and art practice. Students who complete the Associate in Arts in Art History for Transfer will receive priority admission to the California
State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Students who complete the Associate in Arts in Art History for Transfer will prepare the student for transfer to a four year University and guarantee admission to the CSU system, though it will not guarantee admission to a particular campus. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate knowledge and skills necessary for transfer as an Art History major.
- Demonstrate skills that translate into a higher level of qualification for employment in museum education, museum curating, gallery design, art sales, and many other areas.
- Use various strategies to evaluate and describe elements of art and visual culture as a basis for lifelong learning in the arts.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate knowledge and skills necessary for transfer as an Art History major.
- Demonstrate skills that translate into a higher level of qualification for employment in museum education, museum curating, gallery design, art sales, and many other areas.
- Use various strategies to evaluate and describe elements of art and visual culture as a basis for lifelong learning in the arts.

Course ID | Title | Units
---|---|---
ARTH 25 | SURVEY OF ART HISTORY - ANCIENT WORLDS TO GOTHIC | 3
ARTH 26* | SURVEY OF WESTERN ART HISTORY - RENAISSANCE TO CONTEMPORARY | 3
ART 80 | DRAWING I | 3

Group A: Select one of the following courses (3 units)

- ARTH 22 SURVEY OF ASIAN ART (INDIA, CHINA, JAPAN, AND KOREA) 3
- ARTH 23 AFRICAN and OCEANIC ART 3

Group B: Select one of the following courses (3 units)

- ART 40 2-D FOUNDATIONS 3
- ART 41* THREE-DIMENSIONAL DESIGN 3
- ART 85* DRAWING FROM THE LIVE MODEL I 3
- ART 9* CERAMICS FUNDAMENTALS 3
- ART 70 FUNDAMENTALS OF SCULPTURE 3
- ART 10* CERAMICS - HANDBUILDING I 3
- ART 60* INTAGLIO (ETCHING) AND RELIEF I 3

Group C: Select one of the following courses (3-5 units)

- ARTH 21 WOMEN AND ART 3
- ARTH 24 INDIGENOUS ARTS OF THE AMERICAS 3
- ARTH 27 HISTORY OF AMERICAN ART 3
- ARTH 28 HISTORY OF MODERN ART 3
- ARTH 29 INTRODUCTION TO WORLD ART 3
- ART 4 FUNDAMENTALS OF ART 3
- ART 20 ART APPRECIATION 3
- SPAN 1* ELEMENTARY SPANISH 5
- GER 1 ELEMENTARY GERMAN 5
- FR 1 ELEMENTARY FRENCH 5

Total Units for the Major: 18-20

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

Associate in Arts Degree in Studio Arts for Transfer

The Associate in Arts in Studio Arts for Transfer degree is designed for students who wish to earn a Bachelor of Arts in Art at a California State University institution. The core courses required in this program provide students with a foundation of knowledge to pursue advanced study in a variety of programs including General Studio, Ceramics, Crafts, Drawing, Painting, Entertainment Art, Animation, Graphic Design, Illustration, Sculpture, Printmaking and other similar majors of concentration. The Associate in Arts in Studio Arts 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.

Associate in Science 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.
Program Student Learning Outcomes
Students who complete this program will be able to:

- Identify the structure and evolution of the solar system by comparing and contrasting the planets.
- Demonstrate observational techniques used to gather data on astronomical objects.
- Describe the evolution, structure and composition of the universe. Including all galaxies, quasars, proto-galaxies and components within galaxies (stars, gas, dust and non-stellar objects).

Course ID Title Units
First Year
ASTR 20 GENERAL ASTRONOMY 3
and
ASTR 25* OBSERVATIONAL ASTRONOMY 3
CS 1A INTRODUCTION TO COMPUTER SCIENCE I 5
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 Units for the Major: 34

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

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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 Technology
The Automotive Technology programs are designed to prepare students for employment as automotive technicians. Students may also complete their Associate in Science 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 five certificate options are available: Alternative Fuel Vehicle Specialist, Automotive Chassis Specialist, Automotive Engine Service Specialist, Automotive Engine Performance Specialist, and General Automotive Technician.

Alternative Fuel Vehicle Specialist Certificate Program
This program provides students with knowledge of all operating systems in the modern hybrid and alternative fueled automobile. The emphasis is on the unique characteristics and maintenance issues associated with hybrid and alternative fuel systems and alternative forms of propulsion. Ideal for the small business owner, independent shop, or the dealership career-oriented technician.

Program Student Learning Outcomes
- Employability: Graduates of the Alternative Fuel Vehicle Specialist Program will be well-prepared for employment in the automotive industry.
- Industry Skills: Graduates of the Alternative Fuel Vehicle Specialist Program will have current industry-specific skills related to the safety, operation, service, maintenance and repair of alternative fuel vehicles.
- Alternative Fuel Vehicle Specialist: Graduates of the Alternative Fuel Vehicle Specialist Program will be able to apply knowledge in the workplace of the different systems of alternative fuel vehicles.

Course ID Title Units
AUTO 100 AUTOMOTIVE FUNDAMENTALS 3
AUTO 101* AUTOMOTIVE ELECTRICAL SYSTEMS 3
AUTO 201* ADVANCED AUTOMOTIVE ELECTRICAL 3
AUTO 207* AUTOMOTIVE ENGINEERING FUNDAMENTALS 3
AUTO 229* DIESEL TECHNOLOGY 3
AUTO 220* ALTERNATIVE PROPULSION SYSTEMS 3
AUTO 231* HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY 3
AUTO 232* DIESEL SYSTEMS TECHNOLOGY 3

Total Units for the Certificate: 27

Restricted Electives
AUTO 102* AUTOMOTIVE ENGINE PERFORMANCE/ELECTRONICS AND IGNITION 3
AUTO 103* AUTOMOTIVE ENGINE PERFORMANCE/FUEL AND EMISSION SYSTEMS 3
AUTO 105* AUTOMOTIVE POWER TRAIN 3
AUTO 106A* AUTOMOTIVE SUSPENSION AND ALIGNMENT 3
AUTO 106B* AUTOMOTIVE BRAKE SYSTEMS 3
AUTO 107* AUTOMATIC TRANSMISSION 3
AUTO 108* AUTOMOTIVE AIR CONDITIONING 3
AUTO 202* ADVANCED ENGINE PERFORMANCE DIAGNOSIS 3
AUTO 226* AUTOMOTIVE SERVICE CONSULTANT 3
AUTO 227* AUTOMOTIVE SERVICE MANAGEMENT 3
AUTO 228* ADVANCED VEHICLE PERFORMANCE 1
AUTO 240 AUTOMOTIVE LAB 3
CWE 180† CO-OP-ED-AUTO 1

†CWE 180 should be taken after completing at least 9 units of the Alternative Fuel Vehicle Specialist Program.

Alternative Fuel Vehicle Specialist Associate in Science Degree Program
This program provides students with knowledge of all operating systems in the modern hybrid and alternative fueled automobile. The emphasis is on the unique characteristics and maintenance issues associated with hybrid and alternative fuel systems and alternative forms of propulsion. Ideal for the small business owner, independent shop, or the dealership career-oriented technician.

Program Student Learning Outcomes
- Employability: Graduates of the Alternative Fuel Vehicle Specialist Program will be well-prepared for employment in the automotive industry.
- Industry Skills: Graduates of the Alternative Fuel Vehicle Specialist Program will have current industry-specific skills related to the safety, operation, service, maintenance and repair of alternative fuel vehicles.
- Alternative Fuel Vehicle Specialist: Graduates of the Alternative Fuel Vehicle Specialist Program will be able to apply knowledge in the workplace of the different systems of alternative fuel vehicles.
- License Preparation: Graduates of the Alternative Fuel Vehicle Specialist Program will be qualified to take the related ASE certification exams.
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.

### Program Student Learning Outcomes

Students who complete this program will be able to:
- Demonstrate skills for employment in the automotive industry.
- Apply industry-specific skills related to drivetrain operation, diagnostics and repair.
- Apply knowledge of all phases of chassis system operation, diagnostics and repair.
- Demonstrate preparation for related ASE certification exams.

<table>
<thead>
<tr>
<th>Course ID</th>
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<th>Units</th>
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</thead>
<tbody>
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<td>AUTO 100</td>
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<td>AUTO 105</td>
<td>AUTOMOTIVE POWER TRAIN</td>
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<td>AUTO 106A</td>
<td>AUTOMOTIVE SUSPENSION AND ALIGNMENT</td>
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<td>AUTO 106B</td>
<td>AUTOMOTIVE BRAKE SYSTEMS</td>
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<td>AUTOMATIC TRANSMISSION</td>
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<td>AUTO 108</td>
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<td>AUTO 202</td>
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<td>CWE 180†</td>
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</table>

*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.

### General Education Requirements for Associate Degrees

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 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.

<table>
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<tr>
<th>Course ID</th>
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<tbody>
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<td>AUTO 109*</td>
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<td>AUTO 205*</td>
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<td>AUTO 228*</td>
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<td>AUTO 229*</td>
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<td>AUTO 231*</td>
<td>HYBRID AND ELECTRIC VEHICLE TECHNOLOGY</td>
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<td>CWE 180†</td>
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*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 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 must be completed at Saddleback College.

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<td>AUTO 106A</td>
<td>AUTOMOTIVE SUSPENSION AND ALIGNMENT</td>
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<td>AUTO 106B</td>
<td>AUTOMOTIVE BRAKE SYSTEMS</td>
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<td>AUTO 107</td>
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<td>AUTO 240</td>
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<td>CWE 180†</td>
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</table>

*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.

### General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general education 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Apply industry-specific skills related to engine performance.
- Apply knowledge of all phases of engine electrical system, computer system diagnostics and repair.
- Demonstrate preparation for related ASE certification exams.

<table>
<thead>
<tr>
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<td>AUTO 207*</td>
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Restricted Electives

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<td>AUTO 202*</td>
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<td>AUTO 220*</td>
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<td>CWE 180†</td>
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</tbody>
</table>

*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 Performance Specialist Certificate program.

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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Apply industry-specific skills related to the process of engine machining.
- Apply knowledge of all phases of engine operation, measurement, machining, blueprinting and assembly to rebuild a complete engine.
- Demonstrate preparation for related ASE certification exams.

<table>
<thead>
<tr>
<th>Course ID</th>
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<tbody>
<tr>
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<tr>
<td>AUTO 102*</td>
<td>AUTOMOTIVE ENGINE PERFORMANCE/ELECTRONICS AND IGNITION</td>
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</tr>
</tbody>
</table>
This program provides the student with a comprehensive background in the engine machining process. Emphasis is on rebuild a complete engine in a two-semester course sequence.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Demonstrate auto industry specific skills.
- Demonstrate skills in automotive diagnosis, maintenance, and repair

Course ID Title Units

Restricted Electives

AUTO 108* AUTOMOTIVE AIR CONDITIONING 3
AUTO 109* CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE 5
AUTO 205* ADVANCED SMOG UPDATE TRAINING 0.5
AUTO 220* AUTOMOTIVE ENGINE PERFORMANCE/ FUEL AND EMISSION 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
AUTO 231* HYDRAULIC AND ELECTRICAL VEHICLE TECHNOLOGY - CYLINDER HEADS 3
AUTO 232* DIESEL SYSTEMS TECHNOLOGY 3
AUTO 240* AUTOMOTIVE LAB 3
CWE 180† CO-OP-ED-AUTO 1
AUTO 100 AUTOMOTIVE FUNDAMENTALS 3
AUTO 101* AUTOMOTIVE ELECTRICAL SYSTEMS 3
AUTO 102* AUTOMOTIVE ENGINE PERFORMANCE/ ELECTRONICS AND IGNITION 3
AUTO 103* AUTOMOTIVE ENGINE PERFORMANCE/ FUEL AND EMISSION SYSTEMS 3
AUTO 104A* AUTOMOTIVE ENGINES 5
AUTO 104B* AUTOMOTIVE ENGINES 5
AUTO 200 ENHANCED AREA CLEAN AIR CAR COURSE 5
AUTO 201* ADVANCED AUTOMOTIVE ELECTRICAL 3
AUTO 202* ADVANCED ENGINE PERFORMANCE DIAGNOSIS 3
AUTO 204A* HIGH PERFORMANCE ENGINE BLUEPRINTING - ROTATING ASSEMBLY 3
AUTO 228* ADVANCED VEHICLE PERFORMANCE 1
AUTO 229* DIESEL TECHNOLOGY 3
AUTO 231* HYDRAULIC AND ELECTRICAL VEHICLE TECHNOLOGY - CYLINDER HEADS 3
AUTO 232* DIESEL SYSTEMS TECHNOLOGY 3
AUTO 240* AUTOMOTIVE LAB 3
CWE 180† CO-OP-ED-AUTO 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Demonstrate auto industry specific skills.
- Demonstrate skills in automotive diagnosis, maintenance, and repair

Course ID Title Units

Restricted Electives

AUTO 108* AUTOMOTIVE AIR CONDITIONING 3
AUTO 109* CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE 5
AUTO 205* ADVANCED SMOG UPDATE TRAINING 0.5
### General Automotive Technician

**Associate in Science Degree 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate skills for employment in the automotive industry.
- Demonstrate auto industry specific skills.
- Demonstrate skills in automotive diagnosis, maintenance, and repair.

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<td>AUTOMOTIVE ELECTRICAL SYSTEMS</td>
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<td>AUTOMOTIVE ENGINE PERFORMANCE/ELECTRONICS AND IGNITION</td>
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<td>AUTO 103*</td>
<td>AUTOMOTIVE ENGINE PERFORMANCE/FUEL AND EMISSION SYSTEMS</td>
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<td>AUTOMOTIVE ENGINES</td>
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<td>AUTO 105*</td>
<td>AUTOMOTIVE POWER TRAINE</td>
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<td>AUTO 106A*</td>
<td>AUTOMOTIVE SUSPENSION AND ALIGNMENT</td>
<td>3</td>
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<td>AUTO 106B*</td>
<td>AUTOMOTIVE BRAKE SYSTEMS</td>
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<td>AUTO 207*</td>
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Select from Restricted Electives

Restricted Electives

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<td>AUTO 108*</td>
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<td>CWE 180†</td>
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*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 Technician Certificate program.

### Biology

**Associate in Science Degree Program**

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 and may support attempts to gain entry-level employment or promotion.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a working knowledge of the scientific method.
- Demonstrate the ability to make links among topics and sub-disciplines so that information can be used for deeper comprehension.
- Demonstrate the ability to use the attained knowledge foundation to illustrate concepts and compare examples.

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<td>BIO 3C*</td>
<td>BIOCHEMISTRY AND MOLECULAR BIOLOGY</td>
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<tr>
<td>CHEM 12B*</td>
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Total Units for the Major: 35

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

### 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 must be completed at Saddleback College.

### General Education Requirements for Associate Degrees

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

The Business certificates and degrees are designed for the development of a high quality manager for whom there is an ever-growing need. The Business curriculum is structured to furnish a broad preparation for careers in business at the mid-management levels.
Associate in Science Degree in Business Administration for Transfer

Students who complete the Associate in Science in Business Administration for Transfer degree receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

• Students who complete the Business Administration AS-T degree will be prepared to transfer to a four-year institution with the required business, accounting, economics, math, and other learning.
• Students who complete the Business Administration AS-T degree will have learned the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
• Students who complete the Business Administration AS-T degree will be able to communicate clearly, effectively, and appropriately in writing and orally.

Course ID  Title  Units
ACCT 1A FINANCIAL ACCOUNTING 4
ACCT 1B* MANAGERIAL ACCOUNTING 4
ECON 4* PRINCIPLES (MICRO) 3
ECON 2* PRINCIPLES (MACRO) 3
BUS 14 LEGAL ENVIRONMENT OF BUSINESS 3
BUS 12 BUSINESS LAW 3

List A: Select one of the following courses (3-5 units)

MATH 11* A BRIEF COURSE IN CALCULUS 5
MATH 10* INTRODUCTION TO STATISTICS 3

List B: Select two of the following courses or any course from List A not already used (6-9 units)

CIM 1 COMPUTER INFORMATION SYSTEMS 4
BUS 1 INTRODUCTION TO BUSINESS 3
BUS 104 BUSINESS COMMUNICATION 3

Total Units for the Major: 27-29

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

Business Leadership Certificate Program

The Business Leadership program is designed to increase the ability to succeed in a highly competitive work environment. It will add to and/or enhance leadership skills.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Communicate clearly, effectively, and appropriately in writing and orally.
• Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
• Students who complete the certificate or degree in the Business Leadership program will have learned the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.

Course ID  Title  Units
BUS 1 INTRODUCTION TO BUSINESS 3
BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW 3
BUS 102 ORAL BUSINESS COMMUNICATIONS 3
BUS 103 BUSINESS ENGLISH 3
ENG 1A* PRINCIPLES OF COMPOSITION I 4
ENG 1AH* HONORS PRINCIPLES OF COMPOSITION I 4
BUS 104* BUSINESS COMMUNICATION 3
BUS 120 BUSINESS MANAGEMENT 3

Restricted Electives: Specify total 3

BUS 125 HUMAN RELATIONS IN BUSINESS 3
BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW 3
BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT 3

Total Units for the Certificate: 21-22

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

Business Leadership Associate in Science Degree Program

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

Program Student Learning Outcomes

Students who complete this program will be able to:

• Communicate clearly, effectively, and appropriately in writing and orally.
• Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
• Students who complete the certificate or degree in the Business Leadership program will have learned the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.

Course ID  Title  Units
BUS 1 INTRODUCTION TO BUSINESS 3
BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW 3
BUS 102 ORAL BUSINESS COMMUNICATIONS 3
BUS 103 BUSINESS ENGLISH 3
ENG 1A* PRINCIPLES OF COMPOSITION I 4
ENG 1AH* HONORS PRINCIPLES OF COMPOSITION I 4
BUS 104* BUSINESS COMMUNICATION 3
BUS 120 BUSINESS MANAGEMENT 3

Restricted Electives: Specify total 3

BUS 125 HUMAN RELATIONS IN BUSINESS 3
BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW 3
BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT 3

Total Units for the Major: 21-22

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

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 must be completed at Saddleback College. Degree may be completed with 60-68 units depending on the transfer pattern courses chosen by the student.

General Education Requirements for Associate Degrees

Refer to the Graduation Requirements or to the CSU-GE and IGETC patterns in this catalog for specific courses which meet general
Business Management Associate in Arts Degree Program

The curriculum in the Business Management 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate clearly, effectively, and appropriately in writing and orally.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.
- Apply the basics of financial accounting.
- Assess human communication styles; plan and apply motivational strategies; solve human relations issues.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe and discuss the major influences on small businesses and on starting and building businesses, including governmental, financial, human resource, and other considerations. Consider these influences when planning a potential new product, service, or business.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Communicate clearly, effectively, and appropriately in writing and orally.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.
- Clearly describe the proposed target customer and the need that is being satisfied.
- Research and develop a business plan for all aspects of the creation and maintenance of a business.

Entrepreneurship Certificate Program

The Entrepreneurship programs are designed for students who wish to emphasize entrepreneurship in their community college business studies. They may complete the additional requirements for an Associate in Science degree in this area if they so wish. Entrepreneurial studies help prepare students who plan to seek a higher degree in business.

Completion of the Entrepreneurship programs provides students with critical knowledge and tools for planning and starting a new business. Completion demonstrates persistence, achievement, and may support job applications. The program provides valuable preparation in proven business practices and with business ownership issues such as market focus, measurements of success, and developing a clear and useful business plan.

Because some of the leading causes of failure in new businesses are poor risk management, lack of adequate capitalization, and mismanagement of resources, specific information is provided in these areas to help make good decisions to ensure success. The Entrepreneurship Certificate is also useful for members of the community who are planning or starting a new business. Some of these students might prefer to complete the shorter Entrepreneurship Occupational Skills Award.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the entrepreneurial risks and challenges inherent in the potential new product, service, or business.
- Communicate clearly, effectively, and appropriately in writing and orally.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Clearly develop a business plan for all aspects of the creation and maintenance of a business.

Entrepreneurship Certificate Program

The Entrepreneurship programs are designed for students who wish to emphasize entrepreneurship in their community college business studies. They may complete the additional requirements for an Associate in Science degree in this area if they so wish. Entrepreneurial studies help prepare students who plan to seek a higher degree in business.

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Marketing and Communication Specialties:

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

Entrepreneurship
Associated in Science Degree Program

The Entrepreneurship programs are designed for students who wish to emphasize entrepreneurship in their community college business studies. They may complete the additional requirements for an Associate in Science degree in this area if they so wish. Entrepreneurial studies help prepare students who plan to seek a higher degree in business.

Completion of the Entrepreneurship programs provides students with critical knowledge and tools for planning and starting a new business. Completion demonstrates persistence, achievement, and may support job applications. The program provides valuable preparation in proven business practices and with business ownership issues such as market focus, measurements of success, and developing a clear and useful business plan.

Because some of the leading causes of failure in new businesses are poor risk management, lack of adequate capitalization, and mismanagement of resources, specific information is provided in these areas to help make good decisions to ensure success. The Entrepreneurship Certificate is also useful for members of the community who are planning or starting a new business. Some of these students might prefer to complete the shorter Entrepreneurship Occupational Skills Award.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Consider the major influences on small businesses and on starting and building businesses, including governmental, financial, human resource, and others when planning or building a new product, service, or business.
- Make business decisions that consider the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Communicate clearly, effectively, and appropriately in writing and orally.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.
- Describe the entrepreneurial risks and challenges inherent in each major component of the entrepreneurial business.
- Evaluate a product, service, or business in terms of a clearly defined proposed target market and the need that is being satisfied.
- Research and develop a business plan for all aspects of the creation and maintenance of a business

Recommended Electives:

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<td>BUS 103*</td>
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<td>BUS 223</td>
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<tr>
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<td>CWE 180</td>
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</table>

Associate in Science Degree

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

General Education Requirements for Associate Degrees

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.

Global Business Certificate Program

Technology and international commerce have redefined business in a global context. The Global 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, import/export processes and regulations, and emerging global markets. Completion of the recommended electives demonstrates global competencies in international business. Elective courses provide specialized areas of study.
Program Student Learning Outcomes
Students who complete this program will be able to:

- Apply classic and contemporary marketing functions, including problem solving, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.
- Students who complete a certificate or degree in the Marketing Program will be able to communicate clearly, effectively, and in appropriately in writing and orally.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1</td>
<td>INTRODUCTION TO BUSINESS</td>
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<td>or</td>
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<td>3</td>
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<tr>
<td>or</td>
<td>BUS 13 LEGAL ENVIRONMENT &amp; BUSINESS LAW</td>
<td>3</td>
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<tr>
<td>BUS 104*</td>
<td>BUSINESS COMMUNICATION</td>
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<tr>
<td>BUS 150</td>
<td>INTERNATIONAL BUSINESS</td>
<td>3</td>
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<tr>
<td>BUS 260</td>
<td>SURVEY OF EXPORTING AND IMPORTING</td>
<td>3</td>
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<tr>
<td>BUS 103</td>
<td>BUSINESS ENGLISH</td>
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</tr>
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<td>or</td>
<td>ENG 1A* PRINCIPLES OF COMPOSITION I</td>
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<tr>
<td>or</td>
<td>ENG 1AH* PRINCIPLES OF COMPOSITION I HONORS</td>
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</table>

Restricted Electives: 6 Units - Any one of the following courses not already used from above:

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<tr>
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<tr>
<td>BUS 105</td>
<td>SOCIAL MEDIA MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 109 eCommerce MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111</td>
<td>BUSINESS SUSTAINABILITY STRATEGIES: PEOPLE, PLANET PROFIT</td>
<td>3</td>
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<td>BUS 120</td>
<td>BUSINESS MANAGEMENT</td>
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<td>BUS 135</td>
<td>MARKETING</td>
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<td>BUS 137</td>
<td>PROFESSIONAL SELLING FUNDAMENTALS</td>
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<tr>
<td>BUS 138/CTVR 138</td>
<td>ADVERTISING</td>
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<td>BUS 160</td>
<td>ENTREPRENEURSHIP</td>
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<td>SP 20</td>
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<td>CWE 180</td>
<td>CO-OPERATIVE WORK EXPERIENCE: BUSINESS</td>
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</table>

**Total Units for the Certificate 24-25**

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

**Global Business**

**Associate in Science Degree Program**

Technology and international commerce have redefined business in a global context. The Global 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply classic and contemporary marketing functions, including problem solving, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the

**Course ID** | **Title**                                      | **Units** |
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<tr>
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</thead>
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<tr>
<td>BUS 1</td>
<td>INTRODUCTION TO BUSINESS</td>
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<tr>
<td>or</td>
<td>BUS 12 BUSINESS LAW</td>
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<td>LEGAL ENVIRONMENT OF BUSINESS</td>
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<tr>
<td>or</td>
<td>BUS 104* BUSINESS COMMUNICATION</td>
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<td>BUS 150</td>
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<tr>
<td>or</td>
<td>CWE 180 CO-OP-ED-BUSINESS</td>
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**Total Units for the Major: 21-22**

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

**Associate in Science Degree**

Completion of the courses 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 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**

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.

Suggested coursework not required for the major: BUS 102, BUS 116, BUS 120, BUS 125, BUS 136, BUS 137, BUS 150, BUS 160, 195, BUS 223.

**Marketing Certificate Program**

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

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Apply classic and contemporary marketing functions, including problem solving, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
- Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them; competition and marketing; and the
systems, technologies, and operational controls through which business organizations operate.

- Students who complete a certificate or degree in the Marketing Program will be able to communicate clearly, effectively, and appropriately in writing and orally.

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<td>BUS 1</td>
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<tr>
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<td>or</td>
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<tr>
<td>ENG 1A*</td>
<td>PRINCIPLES OF COMPOSITION I</td>
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<td>PRINCIPLES OF COMPOSITION I HONORS</td>
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</tr>
<tr>
<td>BUS 13</td>
<td>LEGAL ENVIRONMENT &amp; BUSINESS LAW</td>
<td>3</td>
</tr>
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<td>BUS 104*</td>
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<tr>
<td>BUS 137</td>
<td>SOCIAL MEDIA MARKETING</td>
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Total Units for the Certificate: 24-26

Restricted Electives:
- BUS 102 ORAL BUSINESS COMMUNICATIONS 3
- ACCT 1A FINANCIAL ACCOUNTING 4
- BUS/CTVR 138 ADVERTISING 3
- BUS 109 e-COMMERCE MARKETING 3
- BUS 136 PRINCIPLES OF RETAILING 3
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS 3
- BUS 160 ENTREPRENEURSHIP 3
- BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT 3
- BUS 111 BUSINESS SUSTAINABILITY STRATEGIES PEOPLE, PLANET, PROFIT 3
- CWE 180 COOPERATIVE WORK EXPERIENCE: BUSINESS 1-4

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

Marketing

Associate in Science Degree Program

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

Program Student Learning Outcomes

- Students who complete this program will be able to:
  - Apply classic and contemporary marketing functions, including problem solving, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.
  - Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of businesses.
  - Describe the functions of business in society including the major concepts related to business ownership and the factors that influence them: competition and marketing; and the systems, technologies, and operational controls through which business organizations operate.
  - Students who complete a certificate or degree in the Marketing Program will be able to communicate clearly, effectively, and appropriately in writing and orally.

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<td>BUS 1</td>
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<td>BUS 103</td>
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<tr>
<td>or</td>
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<td>ENG 1A*</td>
<td>PRINCIPLES OF COMPOSITION I</td>
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<tr>
<td>or</td>
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<tr>
<td>ENG 1AH*</td>
<td>PRINCIPLES OF COMPOSITION I HONORS</td>
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<td>BUS 13</td>
<td>LEGAL ENVIRONMENT &amp; BUSINESS LAW</td>
<td>3</td>
</tr>
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<td>BUS 104*</td>
<td>BUSINESS COMMUNICATION</td>
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<tr>
<td>BUS 135</td>
<td>MARKETING</td>
<td>3</td>
</tr>
<tr>
<td>BUS 137</td>
<td>SOCIAL MEDIA MARKETING</td>
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Total Units for the Certificate: 25-31

Restricted Electives:
- BUS 102 ORAL BUSINESS COMMUNICATIONS 3
- ACCT 1A FINANCIAL ACCOUNTING 4
- BUS/CTVR 138 ADVERTISING 3
- BUS 109 e-COMMERCE MARKETING 3
- BUS 136 PRINCIPLES OF RETAILING 3
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS 3
- BUS 160 ENTREPRENEURSHIP 3
- BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT 3
- BUS 111 BUSINESS SUSTAINABILITY STRATEGIES PEOPLE, PLANET, PROFIT 3
- CWE 180 COOPERATIVE WORK EXPERIENCE: BUSINESS 1-4

General Education Requirements for Associate Degrees

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.

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.

Program Student Learning Outcomes

- Students who complete this program will be able to:
  - Identify the fundamentals of professional retailing: 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.
  - Assess human communication styles; plan and apply motivational strategies; solve human relations issues.
  - Engage successfully in one-to-one professional selling in today's marketplace.
  - Demonstrate skills in one of three retailing specialties: management, promotion, or merchandising.

<table>
<thead>
<tr>
<th>Course ID</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS 1</td>
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<td>BUS 125</td>
<td>HUMAN RELATIONS IN BUSINESS</td>
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<td>BUS 137</td>
<td>PROFESSIONAL SELLING FUNDAMENTALS</td>
<td>3</td>
</tr>
<tr>
<td>CWE 180</td>
<td>CO-OP ED BUSINESS</td>
<td>1-4</td>
</tr>
<tr>
<td>CIM 112</td>
<td>MICROSOFT OFFICE</td>
<td>3</td>
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</tbody>
</table>

Select one Specialty Industry Area 12-15

Total Units for the Certificate: 25-31

Specialty Industry Areas:

Area I - Management
- BUS 12 BUSINESS LAW 3
- or
- BUS 14 LEGAL ENVIRONMENT OF BUSINESS 3
- BUS 104 BUSINESS COMMUNICATION 3
- BUS 120 BUSINESS MANAGEMENT 3
- or
- BUS 135 MARKETING 3

Area II - Promotion
- BUS 135 MARKETING 3
- or
- BUS 138 ADVERTISING 3
CTVR 138  ADVERTISING  3
or
BUS 105  SOCIAL MEDIA MARKETING  3
FASH 150  FASHION APPAREL AND PROFESSIONAL TECHNIQUES  3
GC 101  INTRODUCTION TO GRAPHIC COMMUNICATION  3

Area III - Merchandising

BUS 31  TEXTILES  3
or
FASH 31  TEXTILES  3
BUS 135  MARKETING  3
BUS 136  PRINCIPLES OF RETAILING  3
or
BUS 143  FASHION BUYING AND MERCHANDISING  3
or
FASH 143  FASHION BUYING AND MERCHANDISING  3
BUS 147  SPECIAL EVENTS COORDINATION AND PROMOTION  3
or
FASH 147  SPECIAL EVENTS COORDINATION AND PROMOTION  3
BUS 148  VISUAL MERCHANDISING  3
or
FASH 148  VISUAL MERCHANDISING  3

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

Professional Retailing
Associate in Science Degree 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify the fundamentals of professional retailing: 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.
- Assess human communication styles; plan and apply motivational strategies; solve human relations issues.
- Engage successfully in one-to-one professional selling in today’s marketplace.
- Demonstrate skills in one of three retailing specialties: management, promotion, or merchandising.

Course ID | Title | Units
--- | --- | ---
BUS 1 | INTRODUCTION TO BUSINESS | 3
BUS 125 | HUMAN RELATIONS IN BUSINESS | 3
BUS 137 | PROFESSIONAL SELLING FUNDAMENTALS | 3
CWE 180 | CO-OP-ED-BUSINESS | 1-4
CIM 112 | MICROSOFT OFFICE | 3
Select one Specialty Industry Area | 12-15

Total Units for the Major: 25-31

Specialty Industry Areas

Area I - Management

BUS 12 | BUSINESS LAW | 3
or
BUS 14 | LEGAL ENVIRONMENT OF BUSINESS | 3
BUS 104* | BUSINESS COMMUNICATION | 3
BUS 120 | BUSINESS MANAGEMENT | 3
or
BUS 135 | MARKETING | 3

Area II - Promotion

BUS 135 | MARKETING | 3
BUS 138 | ADVERTISING | 3

Saddleback College Catalog 2016/17 www.saddleback.edu 73
• Assess human communication styles; plan and apply motivational strategies; solve human relations issues.

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<th>Units</th>
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<td>ACCT 214</td>
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<td>BUS 102</td>
<td>ORAL BUSINESS COMMUNICATIONS</td>
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<td>BUS 104*</td>
<td>BUSINESS COMMUNICATION</td>
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<tr>
<td>CIM 10</td>
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<tr>
<td>CIM 112</td>
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</table>

Total Units for the Certificate: 31-32

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

Retail Management

Associate in Science Degree 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 students’ 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Describe the scope of the retail manager’s job and the requirements for success, including 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.

• Communicate clearly, effectively, and appropriately in writing and orally.

• Apply classic and contemporary marketing functions, including problem solving, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.

• Demonstrate skills in business math and financial accounting.

• Assess human communication styles; plan and apply motivational strategies; solve human relations issues.

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<tr>
<th>Course ID</th>
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<th>Units</th>
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<tr>
<td>ACCT 1A</td>
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</table>

Total Units for the Major: 31-32

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

Associate in Science Degree

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

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: BUS 12 or 14, 105, 116, 137, 138, 150, 160.

Entrepreneurship

Occupational Skills Award

The Entrepreneurship Occupational Skills Award is particularly useful for members of the community and other students who are planning or are in the process of starting a new business.

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<tr>
<td>BUS 237</td>
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<td>1.5</td>
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Total Units for the Award: 10.5

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 students' 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.

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<tr>
<td>BUS 223</td>
<td>HUMAN RESOURCES AND EMPLOYMENT LAW</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Award: 9

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 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.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 120</td>
<td>BUSINESS MANAGEMENT</td>
<td>3</td>
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<tr>
<td>BUS 125</td>
<td>HUMAN RELATIONS IN BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td>CIM 212</td>
<td>MANAGING PROJECTS WITH MICROSOFT PROJECT</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Award: 9

Chemistry

Associate in Science 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate a working knowledge of inorganic and organic chemistry, including calculations, reactions, and applications.
- Apply to other fields.
- Demonstrate problem-solving and critical thinking skills.
- Engage in hands-on experiences in both the classroom and the laboratory.
- Show confidence in laboratory skills, operate independently during many procedures, and learn to design their own experiments.
- Interpret experimental information, develop relationships, and correlate that experimental information with theory.
- Write quality exams and laboratory reports, with well-developed explanations, discussions, and conclusions.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
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<tr>
<td>CHEM 1A*</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B*</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 12A*</td>
<td>ORGANIC CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 12B*</td>
<td>ORGANIC CHEMISTRY</td>
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<td>Total Units for the Major:</td>
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</table>

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

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: BIO 3C; MATH 3A, 3B, PHYS 2A, 2B or 4A, 4B.

Child Development and Education
The Child Development and Education Department offers programs for students considering work with children in a variety of settings. Child Development coursework offers theory based, hands-on opportunities for students to deepen their understanding of children's physical, cognitive, and socioemotional development and apply culturally sensitive, specific pedagogical strategies effective for children ages 0-5 and their families. The Elementary Education degree is designed to prepare students considering elementary teaching with a strong foundation in introductory subject matter requirements for teaching at the elementary school level.

Certificates, degrees, and courses in the CDE Department are aligned with professional early childhood certification requirements, prepare students for transfer to four-year institutions, and provide post certification professional development. The majors offer preparation for careers in state funded children's programs, private preschools, infant and toddler care settings, and elementary school teaching. Programs in the CDE department 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, public advocacy, special education, and pediatric health.

### Associate in Science Degree in Early Childhood Education for Transfer

The curriculum in the Associate in Science in Child Development for Transfer 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 promotion.

Please refer to Graduation Requirements for more information on transfer degree requirements

Program Student Learning Outcomes
Students who complete this program will be able to:
- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children's development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 101*</td>
<td>PRINCIPLES AND PRACTICES OF TEACHING</td>
<td></td>
</tr>
<tr>
<td></td>
<td>YOUNG CHILDREN</td>
<td>3</td>
</tr>
<tr>
<td>CD 105</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>CD 107</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CD 110</td>
<td>Introduction to Early Childhood Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CD 112*</td>
<td>HEALTH, SAFETY, AND NUTRITION</td>
<td>3</td>
</tr>
<tr>
<td>CD 117*</td>
<td>TEACHING IN A DIVERSE SOCIETY</td>
<td>3</td>
</tr>
<tr>
<td>CD 120*</td>
<td>OBSERVATION AND ASSESSMENT</td>
<td>3</td>
</tr>
<tr>
<td>CD 121*</td>
<td>PRACTICUM: THE STUDENT TEACHING</td>
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<tr>
<td></td>
<td>EXPERIENCE</td>
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<td>Total Units for the Major:</td>
<td>26</td>
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</tbody>
</table>

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

### Early Childhood 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 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
• Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children’s development.
• Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5.
• Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
• Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
• Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

### Course ID | Title | Units
--- | --- | ---
CD 101* | PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN | 3
CD 105 | Child, Family, and Community | 3
CD 107 | Child Growth and Development | 3
CD 110 | Introduction to Early Childhood Curriculum | 3
CD 111* | CHILD GUIDANCE AND COMMUNICATION | 3
CD 112* | HEALTH, SAFETY, AND NUTRITION | 3
CD 117* | TEACHING IN A DIVERSE SOCIETY | 3
CD 120* | OBSERVATION 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 or Language Arts
- Science or Math
- Social Sciences
- Humanities or Fine Arts

<table>
<thead>
<tr>
<th>Required Units</th>
<th>Total Units for the Certificate: 45</th>
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<tbody>
<tr>
<td>*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.</td>
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</table>

### Early Childhood Teacher

#### Associate in Science Degree 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 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.

### Program Student Learning Outcomes
Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children’s development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

### Course ID | Title | Units
--- | --- | ---
Core Courses
CD 101* | PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN | 3
CD 15* | CHILD, FAMILY, AND COMMUNITY | 3
CD 7* | CHILD GROWTH AND DEVELOPMENT | 3
CD 110* | INTRODUCTION TO CURRICULUM | 3
CD 111* | CHILD GUIDANCE AND COMMUNICATION | 3
CD 112* | HEALTH, SAFETY, AND NUTRITION | 3
CD 117* | TEACHING IN A DIVERSE SOCIETY | 3
CD 120* | OBSERVATION 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.

### 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 or Language Arts
- Science or Math
- Social Sciences
- Humanities or Fine Arts

<table>
<thead>
<tr>
<th>Required Units</th>
<th>Total Units for the Major: 45</th>
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</thead>
<tbody>
<tr>
<td>*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.</td>
<td></td>
</tr>
</tbody>
</table>

### Associate in Science Degree
Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 must be completed at Saddleback College. Students intending to transfer must complete IGETC or CSU pattern general education courses.

### General Education Requirements for Associate Degrees
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 in Arts Degree in Elementary Teacher Education for Transfer
Upon completion of the Associate in Arts in Elementary Teacher Education for Transfer, students will have a strong foundation in introductory content area subject matter requirements for teaching at the elementary school level. Students will also have the opportunity to participate in supervised fieldwork in K-12 settings. Students who complete the Associate in Arts Degree in Elementary Teacher Education for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those
considering professional careers, which can be achieved through transfer.

**Please refer to** Graduation Requirements for more information on transfer degree requirements

**Program Student Learning Outcomes**
Students who complete this program will be able to:
- Demonstrate introductory subject matter competency for the Multiple Subject California Subject Examination for Teachers (CSET).
- Compare and contrast teaching strategies and approaches appropriate to students of diverse needs, abilities, and backgrounds.
- Discuss the historical influences and current trends in education.

**Course ID** | **Title** | **Units**
---|---|---
EDUC 90* | INTRO TO ELEMENTARY EDUCATION | 3
CD 107 | Child Growth and Development | 3
BIO 20 | INTRODUCTION TO BIOLOGY | 3
CHEM 3* | FUNDAMENTAL CHEMISTRY | 4
PHYS 20 | THE IDEAS AND EVENTS OF PHYSICS | 4
GEOL 20 | INTRODUCTION TO EARTH SCIENCE | 4
MATH 112* | MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS | 5
SP 1 | COMMUNICATION FUNDAMENTALS | 3
ENG 1A* | PRINCIPLES OF COMPOSITION I | 4
ENG 25* | INTRODUCTION TO LITERATURE | 3
GEOG 3 | WORLD REGIONAL GEOGRAPHY | 3
HIST 4 | WORLD HISTORY TO 1750 | 3
HIST 16 | HISTORY OF THE UNITED STATES TO 1876 | 3
PS 1 | AMERICAN GOVERNMENT | 3

**Group A: Select one of the following courses (3 units)**
- ENG 18* PRINCIPLES OF COMPOSITION II | 3
- ENG 170 Reasoning and College Reading | 3

**Group B: Select one of the following courses (3 units)**
- MUS 20 MUSIC APPRECIATION | 3
- TA 20 THEATRE APPRECIATION | 3

**Group C: Select one of the following courses (3 units)**
- ENG 142* CHILDREN'S LITERATURE | 3
- ENG 17A* SURVEY OF ENGLISH LITERATURE – BEOWULF TO ROMANTIC MOVEMENT | 3
- ENG 17B* SURVEY OF ENGLISH LIT - ROMANTIC MOVEMENT TO THE PRESENT | 3
- ENG 15A* SURVEY OF AMERICAN LITERATURE - 1620-1860 | 3
- ENG 15B* SURVEY OF AMERICAN LITERATURE - 1860-CONTEMPORARY | 3
- PHIL 1* INTRODUCTION TO PHILOSOPHY | 3
- PHIL 15* INTRODUCTION TO ETHICS | 3
- HUM 1* INTRODUCTION TO HUMANITIES | 3
- HUM 21* THE SEARCH FOR MEANING - IDEAS OF SELF ACROSS CULTURES | 3
- ANTH 3* CULTURE AND LANGUAGE | 3

**Total Units for the Major:** 58

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

**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.

**Program Student Learning Outcomes**
Students who complete this program will be able to:
- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children's development.
- Demonstrate skills and knowledge related to the unique needs and education of infants and toddlers age 0-36 months.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

**Course ID** | **Title** | **Units**
---|---|---
CD 101* | PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN | 3
CD 105 | CHILD, FAMILY, AND COMMUNITY | 3
CD 107 | CHILD GROWTH AND DEVELOPMENT | 3
CD 110 | INTRODUCTION TO EARLY CHILDHOOD CURRICULUM | 3
CD 111* | CHILD GUIDANCE AND COMMUNICATION | 3
CD 112* | HEALTH, SAFETY, AND NUTRITION | 3
CD 117* | TEACHING IN A DIVERSE SOCIETY | 3
CD 120* | OBSERVATION AND ASSESSMENT | 3

**Infant and Toddler Courses**
- CD 123* INFANT AND TODDLER DEVELOPMENT | 3
- CD 133 INFANT AND TODDLER CURRICULUM AND GROUP CARE | 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.
- English/Language Arts
- Science or Math
- Social Sciences
- Humanities/Fine Arts

**Total Units for the Certificate:** 51

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

**Master Teacher Certificate Program**
This certificate meets the coursework requirements for the Master Teacher level Child 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.
Program Student Learning Outcomes
Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children's development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate the skills and knowledge used in mentoring and supervising adults in early childhood settings.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Course ID | Title | Units
--- | --- | ---
CD 101* | PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN | 3
CD 105 | CHILD, FAMILY, AND COMMUNITY | 3
CD 107 | CHILD GROWTH AND DEVELOPMENT | 3
CD 110 | INTRODUCTION TO EARLY CHILDHOOD CURRICULUM | 3
CD 111* | CHILD GUIDANCE AND COMMUNICATION | 3
CD 112* | HEALTH, SAFETY, AND NUTRITION | 3
CD 117* | TEACHING IN A DIVERSE SOCIETY | 3
CD 120* | OBSERVATION AND ASSESSMENT | 3

Adult Supervision Course
CD 127* | ADULT SUPERVISION AND MENTORING | 3

Specialization Units:
Choose one of the clusters below
Infant/Toddler
CD 123* | INFANT AND TODDLER DEVELOPMENT | 3
CD 133 | INFANT AND TODDLER CURRICULUM AND GROUP CARE | 3

Language and Literacy
CD 115* | LITERACY IN EARLY CHILDHOOD | 3
ENG 142* | CHILDREN'S LITERATURE | 3

Science and Math
CD 113* | MATH AND SCIENCE IN EARLY CHILDHOOD | 3
GEOL 1 | INTRODUCTION TO PHYSICAL GEOLOGY | 4

Special Needs
CD 135* | THE YOUNG CHILD WITH SPECIAL NEEDS | 3
CD 140* | EARLY INTERVENTION AND INCLUSION | 3

The Arts
CD 114* | CREATIVE AND DRAMATIC ARTS IN EARLY CHILDHOOD | 3
ART 9* | CERAMICS FUNDAMENTALS | 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

Total Units for the Certificate: 53-54

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

School Age Care and Recreation Certificate Program
This certificate provides 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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, family, economic, political, historical contexts that influence all children's development.
- Demonstrate skills and knowledge related to the unique needs of children in school age in a before and after recreation settings.
- Use the ongoing cycle of curriculum development to plan, implement, and evaluate early childhood curriculum including environments based on developmentally, culturally, linguistically appropriate practices.
- Apply developmental theory, knowledge of child development, and research based teaching strategies to meet the unique educational needs of young children individually and in group care settings.
- Demonstrate professional skills including ethical practices, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers.

Course ID | Title | Units
--- | --- | ---
CD 101* | PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN | 3
CD 105 | CHILD, FAMILY, AND COMMUNITY | 3
CD 107 | CHILD GROWTH AND DEVELOPMENT | 3
CD 110 | INTRODUCTION TO EARLY CHILDHOOD CURRICULUM | 3
CD 111* | CHILD GUIDANCE AND COMMUNICATION | 3
CD 112* | HEALTH, SAFETY, AND NUTRITION | 3
CD 117* | TEACHING IN A DIVERSE SOCIETY | 3
CD 120* | OBSERVATION AND ASSESSMENT | 3

School Age Course
CD 121* | PRACTICUM: THE STUDENT TEACHING EXPERIENCE | 5
Lab placement must be in a before/after school care setting with children ages 6-12
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
Site Supervisor Certificate Program

This certificate is designed for students who will be single site supervisors under Title 5 regulations or directors for centers regulated by Title 22. It allows holders to supervise Master Teachers, Teachers, Associate Teachers and assistants as well as manage single site programs, provide instruction and serve as coordinators of curriculum and staff development. To be eligible for this level of the California Children’s Center Permit, work experience of 350 days of 3 hours per day within 4 years (100 hours of which must include supervision of adults) must be completed.

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

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psychosocial, cognitive, and language development.
- Identify environmental, cultural, familial, economic, political, and historical contexts that influence all children’s development.
- Demonstrate a range of skills and knowledge related to the unique need of children ages 0-5 years.
- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate the skills and knowledge in supervising program staff, financial management, licensing requirements, and program management in settings for young children.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Course ID | Title | Units
--- | --- | ---
CD 101* | PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN | 3
CD 105 | CHILD, FAMILY & COMMUNITY | 3
CD 107 | CHILD GROWTH & DEVELOPMENT | 3
CD 110 | INTRODUCTION TO EARLY CHILDHOOD CURRICULUM | 3
CD 111* | CHILD GUIDANCE AND COMMUNICATION | 3
CD 112* | HEALTH, SAFETY, AND NUTRITION | 3
CD 117* | TEACHING IN A DIVERSE SOCIETY | 3
CD 120* | OBSERVATION AND ASSESSMENT | 3
CD 121* | PRACTICUM: THE STUDENT TEACHING EXPERIENCE | 5

Supervised Field Experience Course

- CD 121*

Adult Supervision and Administration Courses (8 units)

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CD 127*</td>
<td>ADMINISTRATION OF YOUNG CHILDREN'S SETTNGS: PROGRAM</td>
<td>3</td>
</tr>
<tr>
<td>CD 128*</td>
<td>ADMINISTRATION OF YOUNG CHILDREN'S SETTNGS: MANAGEMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education (16 units)

A course in each of the following 4 areas must be included.

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

Total Units for the Certificate: 53

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

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 101* | PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN | 3
CD 105 | Child, Family & Community | 3
CD 107 | Child Growth and Development | 3
CD 110* | INTRODUCTION TO CURRICULUM | 3

Total Units for the Award: 12

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

Cinema/Television/Radio Certificate Program

The Cinema/Television/Radio Program 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply skills and knowledge required to be successful in the media production industry and/or to excel in four-year institutions.
- Produce a demo reel which can showcase their skills and knowledge and help them find employment.
- Demonstrate readiness for employment in the industry and/or transfer to a four-year institution.
- Describe the technical, cultural and economic history and trends of radio, television or film.

Course ID | Title | Units
--- | --- | ---
CTVR 40* | TELEVISION AND FILM SCRIPTWRITING | 3
CTVR 101 | VIDEO PRODUCTION BASICS | 3

Select one Specialty Area

Total Units for the Certificate: 21

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

Specialty Area 1 - Cinema

Required Courses:

- CTVR 31*
- CTVR 32*

Restricted Electives: (9 units)

- CTVR 42*
- CTVR 111*
CTVR 129* DOCUMENTARY PRODUCTION 3
CTVR 140* TELEVISION AND FILM SCRIPTWRITING II 3
CTVR 151 NON-LINEAR EDITING I 3
CTVR 233* FILM PRODUCTION III 3
CTVR 251* NON-LINEAR EDITING II 3
CTVR 262 PRODUCTION MANAGEMENT 3
CTVR 264* CINEMATOGRAPHY 2
CTVR 266 SCRIPT SUPERVISING FOR FILM AND TELEVISION 3
CTVR 280* CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3
CTVR 290 ACTING FOR THE CAMERA I 3
CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER 3
CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1

Specialty Area 2 - Television
Required Courses:
CTVR 124* TELEVISION PRODUCTION I 3
CTVR 125* TELEVISION PRODUCTION II 3

Restricted Electives: (9 units)
CTVR 42* TELEVISION AND FILM DIRECTING 3
CTVR 111* AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM 3
CTVR 128 TELEVISION AND RADIO NEWS 3
CTVR 129* DOCUMENTARY PRODUCTION 3
CTVR 140* TELEVISION AND FILM SCRIPTWRITING II 3
CTVR 151 NON-LINEAR EDITING I 3
CTVR 251* NON-LINEAR EDITING II 3
CTVR 262 PRODUCTION MANAGEMENT 3
CTVR 264* CINEMATOGRAPHY 2
CTVR 266 SCRIPT SUPERVISING FOR FILM AND TELEVISION 3
CTVR 280* CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3
CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1

Specialty Area 3 - Radio
Required Courses:
CTVR 110 AUDIO PRODUCTION 3
CTVR 113* RADIO BROADCASTING 3
CTVR 115 ADVANCED RADIO BROADCASTING 2

Restricted Electives: (7 units)
CTVR 111* AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM 3
CTVR 118/ MUS 118 DIGITAL MULTI-TRACK MUSIC RECORDING 4
CTVR 128 TELEVISION AND RADIO NEWS 3
CTVR 191 VOICE-OVER AND ANNOUNCING 3
CTVR 280* CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3
CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1

Specialty Area 4 - Post Production
Required Courses:
CTVR 151 NON-LINEAR EDITING I 3
CTVR 251* NON-LINEAR EDITING II 3
CTVR 253* DIGITAL SPECIAL EFFECTS 3

Restricted Electives: (6 units)
CTVR 42* TELEVISION AND FILM DIRECTING 3
CTVR 111* AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM 3
CTVR 118/ MUS 118 DIGITAL MULTI-TRACK MUSIC RECORDING 4
CTVR 280* CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3
CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1

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**Total Units for the Major:** 21

**Specialty Area 1 - Cinema**

**Required Courses:**
- CTVR 31*
- CTVR 32*

**Restricted Electives:** (9 units)
- CTVR 124*
- CTVR 125*
- CTVR 111*
- CTVR 129*
- CTVR 140*
- CTVR 151
- CTVR 233*
- CTVR 251*
- CTVR 262
- CTVR 264*
- CTVR 266
- CTVR 280*
- CTVR 290
- CTVR 291
- CWE 180

**Specialty Area 2 - Television**

**Required Courses:**
- CTVR 124*
- CTVR 125*

**Restricted Electives:** (9 units)
- CTVR 42*
- CTVR 111*
- CTVR 128
- CTVR 129*
- CTVR 140*
- CTVR 151
- CTVR 251*
- CTVR 262
- CTVR 264*
- CTVR 266
- CTVR 280*
- CTVR 290
- CTVR 291
- CWE 180

**Specialty Area 3 - Radio**

**Required Courses:**
- CTVR 110
- CTVR 113*
- CTVR 115

**Restricted Electives:** (7 units)
- CTVR 111*
- CTVR 114
- CTVR 118/
- CTVR 128
- CTVR 191
- CTVR 280*
- CWE 180

**Specialty Area 4 - Post Production**

**Required Courses:**
- CTVR 151

**Total Units for the Major:** 21

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**Specialty Area 5 - CTVR-Critical Studies**

**Required Courses:** (12 units)
- CTVR 3
- CTVR 5
- CTVR 7
- CTVR 9

**Restricted Electives:** (3 units)
- CTVR 1/1
- CWE 180

**Specialty Area 6 - Screen Acting and Voice Performance**

**Required Courses:**
- CTVR 191
- CTVR 290
- CTVR 291*

**Restricted Electives:** (6 units)
- CTVR 31*
- CTVR 42*
- CTVR 124*
- CTVR 128
- CTVR 129*
- CTVR 140*
- CTVR 280*
- CWE 180
- CWE 180
- CWE 180
- CWE 180

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**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 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**

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

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.

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Total Units for the Award: 15

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

CTVR - 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.

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

Post Production

Occupational Skills Award

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.

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Total Units for the Award: 15

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Radio

Occupational Skills Award

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.

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<td>3</td>
</tr>
<tr>
<td>CTVR 114/ MUS 118</td>
<td>DIGITAL MULTI-TRACK MUSIC RECORDING</td>
<td>4</td>
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<tr>
<td>CTVR 128</td>
<td>TELEVISION AND RADIO NEWS</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 191</td>
<td>VOICE-OVER AND ANNOUNCING</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 280*</td>
<td>CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS</td>
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<tr>
<td>CWE 180</td>
<td>COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO</td>
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</table>

*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/interactive 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.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTVR 191</td>
<td>VOICE-OVER AND ANNOUNCING</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 290</td>
<td>ACTING FOR THE CAMERA I</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 291</td>
<td>ACTING FOR THE CAMERA II - CREATING A CHARACTER</td>
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Restricted Electives:

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<tr>
<td>CTVR 31*</td>
<td>FILM PRODUCTION I</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 40*</td>
<td>TELEVISION AND FILM SCRIPTWRITING I</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 42*</td>
<td>TELEVISION AND FILM DIRECTING</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 101</td>
<td>VIDEO PRODUCTION BASICS</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 124*</td>
<td>TELEVISION PRODUCTION I</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 128</td>
<td>TELEVISION AND RADIO NEWS</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 129*</td>
<td>DOCUMENTARY PRODUCTION</td>
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<tr>
<td>TA 290</td>
<td>ACTING FOR TELEVISION AND FILM</td>
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</tr>
</tbody>
</table>

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

Television Occupational Skills Award

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.

<table>
<thead>
<tr>
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<th>Title</th>
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<tr>
<td>CTVR 124*</td>
<td>TELEVISION PRODUCTION I</td>
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<tr>
<td>CTVR 125*</td>
<td>TELEVISION PRODUCTION II</td>
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Restricted Electives:

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<td>CTVR 42*</td>
<td>TELEVISION AND FILM DIRECTING</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 111*</td>
<td>AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM</td>
<td>3</td>
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<tr>
<td>CTVR 128</td>
<td>TELEVISION AND RADIO NEWS</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 129*</td>
<td>DOCUMENTARY PRODUCTION</td>
<td>3</td>
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<tr>
<td>CTVR 140*</td>
<td>TELEVISION AND FILM SCRIPTWRITING II</td>
<td>3</td>
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<tr>
<td>CTVR 151</td>
<td>NON-LINEAR EDITING I</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 251</td>
<td>NON-LINEAR EDITING II</td>
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<tr>
<td>CTVR 262</td>
<td>PRODUCTION MANAGEMENT</td>
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<tr>
<td>CTVR 264*</td>
<td>CINEMATOGRAPHY</td>
<td>2</td>
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<td>CTVR 266</td>
<td>SCRIPT SUPERVISIGN FOR FILM AND TELEVISION</td>
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<td>CTVR 280*</td>
<td>CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS</td>
<td>3</td>
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</tbody>
</table>

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

Associate in Arts Degree in Communication Studies for Transfer

The curriculum in the Associate in Arts in Communication for Transfer 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 promotion.

Please refer to Graduation Requirements for more information on transfer degree requirements

Program Student Learning Outcomes

Students who complete this program will be able to:

- Use enhanced awareness to describe ethical ways of interacting.
- Effectively communicate in front of audiences.
- Demonstrate proficiency in research and citation technique.
- Correctly apply communication theories to enhance the quality of their interactions in their everyday lives.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SP 1</td>
<td>COMMUNICATION FUNDAMENTALS</td>
<td>3</td>
</tr>
<tr>
<td>SP 3*</td>
<td>ARGUMENTATION AND DEBATE</td>
<td>3</td>
</tr>
<tr>
<td>SP 5</td>
<td>INTERPERSONAL COMMUNICATION</td>
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<tr>
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<td>Total Units for the Major:</td>
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</table>

Select two of the following courses (6 Units)

- CTVR 1 MASS MEDIA AND SOCIETY
- JRN 1 MASS MEDIA AND SOCIETY
- CTVR 124* TELEVISION PRODUCTION I
- MATH 10* INTRODUCTION TO STATISTICS
- SP 20 INTERCULTURAL COMMUNICATION
- SP 106 FORENSICS ACTIVITY
- TA 30 INTRODUCTION TO ORAL INTERPRETATION

Select one of the following courses or any of the courses not selected above (3 Units)

- ANTH 2 CULTURAL ANTHROPOLOGY
- ENG 1B* PRINCIPLES OF COMPOSITION II
- JRN 2 NEWS WRITING
- PSYC 1 INTRODUCTION TO PSYCHOLOGY
- SOC 1 INTRODUCTION TO SOCIOLOGY

Total Units for the Major: 18

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.
Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of application development.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID | Title | Units
--- | --- | ---
CIMP 5 | BUSINESS PROGRAMMING I - VISUAL BASIC | 3.5
CIMP 7A | BUSINESS PROGRAMMING - JAVA - BEGINNING | 3
CI MW 105 | WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL | 3
CI MW 250A | MICROSOFT ASP.NET - BEGINNING | 3.5
Select from Restricted Electives | 5-7
Total Units for the Certificate: 18-20

Restricted Electives:

- CI MW 7B* | BUSINESS PROGRAMMING - JAVA - ADVANCED | 3
- CI MN 200 | INTRODUCTION TO NETWORKING | 3
- CI MW 245 | Web Development: PHP & CMS/WordPress E-Commerce | 3
- CI MN 250* | NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX | 3
- CI MW 250B | MICROSOFT ASP.NET - ADVANCED | 3
- CI MW 260 | WEB DEVELOPMENT: JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX | 3
- CI MW 100A* | WEB SITE DEVELOPMENT - HTML-BEGINNING | 1.5
- CI MW 100B* | WEB SITE DEVELOPMENT - HTML-ADVANCED | 1.5
- CI MP 115 | BUSINESS PROGRAMMING - C# | 3.5
- CM A 288 | DATABASE REPORTING | 3.5
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested coursework not required for the major: ACCT 1A, ACCT 1B; BUS 1, BUS 12; CI M 112, 121A, 207, 210; ECON 2, 4, 207; MATH 10.

Applications Developer

Associate in Science Degree Program
This program is designed to prepare the student for entry-level employment as an applications developer.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of application development.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID | Title | Units
--- | --- | ---
CI MW 2A | Business Programming I: Visual Basic | 3.5
CI MW 7A | Business Programming: Java - Beginning | 3
CI MW 205A | Web Development and DB: Intro SQL and MYSQL | 3
CI MW 251 | Introduction to Networking | 3
CI MW 260A | Microsoft ASP.NET - Beginning | 3.5
CI MW 269A | Web Development: JavaScript - Beginning | 1.5
CI MW 271A | Web Development: XHTML - Beginning | 1.5
Select from Restricted Electives | 3-4.5
Total Units for the Major: 22-23.5

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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of E-commerce.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID | Title | Units
--- | --- | ---
CI MW 100A* | WEB SITE DEVELOPMENT - HTML-BEGINNING | 1.5
CI MW 100B* | WEB SITE DEVELOPMENT - HTML-ADVANCED | 1.5
CI MW 240 | WEB 2.0 DESIGN: CASCADING STYLE SHEETS | 3
CI MW 110A | CREATING WEB PAGES: DREAMWEAVER - BEGINNING | 1.5
CI MW 280+ | WEB DESIGN - CAPSTONE PORTFOLIO PROJECT | 1.5
Select from Restricted Electives | 9
Total Units for the Certificate: 18

Restricted Electives:

- BUS 135 | MARKETING | 3
CIMW 245 WEB DEVELOPMENT: PHP & CMS/WORD PRESS E-COMMERCE 3
CIMW 220A/B WEB ANIMATION: FLASH - BEGINNING/INTERMEDIATE 1.5, 1.5
CIMW 110B CREATING WEB PAGES: DREAMWEAVER - ADVANCED 1.5
CIMS 200* INFORMATION SECURITY FUNDAMENTALS 3
CIMW 235 WEB DEVELOPMENT: ADOBE FIREWORKS 1.5
CIMA 106 DATABASE - ACCESS 3
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Final course to be taken

E-Commerce Specialist
Associate in Science Degree

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate key skills for employment in the areas of E-commerce.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Restricted Electives:

Restrictions Electives:

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate key skills for employment in the area of Network Administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

Course ID Title Units
CIM 1 COMPUTER INFORMATION SYSTEMS 4
CIM 112 MICROSOFT OFFICE 3
CIMN 230 COMPUTER OPERATING SYSTEMS: UNIX/LINUX 3
CIMN 100+ COMPUTER OPERATING SYSTEMS- WINDOWS 3
CIMN 200 INTRODUCTION TO NETWORKING 3
CIMN 210 NETWORKING ESSENTIALS AND TECHNOLOGIES 3.5
Select from Restricted Electives 6
Total units for the Certificate: 21.5-22.5

Restricted Electives:

CIMP 7A BUSINESS PROGRAMMING- JAVA-BEGINNING 3
CIMP 7B BUSINESS PROGRAMMING- JAVA-ADVANCED 3
CIMP 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL 3
CIMA 106 DATABASE - ACCESS 3
CIMA 207 SOCIAL MEDIA & WEB FUNDAMENTALS 1.5
CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT 3
CIMA 240* FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION 3
CIMA 250* NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX 3
CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING 1.5
CIMW 100B WEB SITE DEVELOPMENT - HTML—ADVANCED 1.5
CIMS 200* INFORMATION SECURITY FUNDAMENTALS 3
CIMS 230 SECURITY+ 3
CIMN 220A MCITP CERTIFICATION EXAM PREP I 3
CIMN 220B MCITP CERTIFICATION EXAM PREP II 3
CIMN 220C MCITP CERTIFICATION EXAM PREP III 3
CIMN 220D MCITP CERTIFICATION EXAM PREP IV 3
CIMN 220E MCITP CERTIFICATION EXAM PREP V 3
CIMN 220F MCITP CERTIFICATION EXAM PREP VI 3
CIMN 250 CYBERLAW 3
CIMN 260 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.
Suggested coursework not required for the major: CIMP 5, CIMA 102, CIMA 104, CIMA 104A; ECON 2, ECON 4; CMT 215 CMT 220, CMT 225*, CMT 230*.
Network Administrator
Associate in Science Degree Program

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

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of Network Administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

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<tr>
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<th>Title</th>
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<tr>
<td>CIM 112</td>
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<td>CIMN 230</td>
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<td>INTRODUCTION TO NETWORKING</td>
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Restricted Electives:

- CIMP 7A* BUSINESS PROGRAMMING - JAVA-BEGINNING 3
- CIMP 7B* BUSINESS PROGRAMMING - JAVA-ADVANCED 3
- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL 3
- CIM 106 DATABASE - ACCESS 3
- CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS 1.5
- CIM 108 BUSINESS PRESENTATIONS - POWERPOINT 3
- CIMN 240 FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION 3
- CIMN 250 NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX 3
- CIMW 100A* WEB SITE DEVELOPMENT - HTML-BEGINNING 1.5
- CIMW 100B* WEB SITE DEVELOPMENT - HTML-ADVANCED 1.5
- CIMS 200 INFORMATION SECURITY FUNDAMENTALS 3
- CIMS 230 SECURITY+ 3
- CIMW 220A MCITP CERTIFICATION EXAM PREP I 3
- CIMW 220B MCITP CERTIFICATION EXAM PREP II 3
- CIMW 220C MCITP CERTIFICATION EXAM PREP III 3
- CIMW 220D MCITP CERTIFICATION EXAM PREP IV 3
- CIMN 220E MCITP CERTIFICATION EXAM PREP V 3
- CIMS 250 CYBERLAW 3
- CIMN 260 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 in Science Degree

Completion of the courses 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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: CIM 2A, 214, 216, 216A; ECON 2, ECON 4; CMT 215, CMT 220, CMT 225, CMT 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment with industry standard technical software packages.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CIM 10</td>
<td>INTRODUCTION TO INFORMATION SYSTEMS</td>
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<tr>
<td>or</td>
<td>CIMP 112 MICROSOFT OFFICE</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIMA 102+ WORD PROCESSING - WORD</td>
<td>3</td>
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<tr>
<td>or</td>
<td>CIMA 104+ SPREADSHEETS - EXCEL</td>
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<tr>
<td>or</td>
<td>CIMA 106 DATABASE - ACCESS</td>
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<td>or</td>
<td>CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT</td>
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Restricted Electives:

- CIMA 121A KEYBOARDING FOR COMPUTERS - BEGINNING 1.5
- CIMA 121B* KEYBOARDING FOR COMPUTERS - INTERMEDIATE 1.5
- CIMA 121C* KEYBOARDING FOR COMPUTERS - ADVANCED 1.5
- CIMN 100+ COMPUTER OPERATING SYSTEMS- WINDOWS 3
- CIMN 230 COMPUTER OPERATING SYSTEMS: UNIX/LINUX 3
- CIMA 212 MANAGING PROJECTS WITH MICROSOFT PROJECT 3
- CIMA 223A* COMPUTERIZED ACCOUNTING - QUICKBOOKS - BEGINNING 1.5
- CIMA 223B* COMPUTERIZED ACCOUNTING - QUICKBOOKS - ADVANCED 1.5
- CIM 274A WEB DIGITAL IMAGERY – PHOTOSHOP - BEGINNING 1.5
- CIM 274B* WEB DIGITAL IMAGERY – PHOTOSHOP - ADVANCED 1.5
- CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS 1.5
- CIMW 110A/B CREATING WEB PAGES: DREAMWEAVER – BEGINNING/ADVANCED 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.

Software Specialist
Associate in Science Degree 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.
**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate key skills for employment with industry standard technical software packages.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

**Course ID** | **Title** | **Units**
---|---|---
CIM 10 | INTRODUCTION TO INFORMATION SYSTEMS | 3
or
CIM 112 | MICROSOFT OFFICE | 3
CIMA 102+ | WORD PROCESSING - WORD | 3
CMA 104+ | SPREADSHEETS - EXCEL | 3
CIMA 106 | DATABASE - ACCESS | 3
CIMA 108 | BUSINESS PRESENTATIONS - POWERPOINT | 3
Select from Restricted Electives | | 3

**Total Units for the Major:** 18

**Restricted Electives:**

CIM 121A* | KEYBOARDING FOR COMPUTERS - BEGINNING | 1.5
CIM 121B* | KEYBOARDING FOR COMPUTERS - INTERMEDIATE | 1.5
CIM 121C* | KEYBOARDING FOR COMPUTERS - ADVANCED | 1.5
CIMN 100+ | COMPUTER OPERATING SYSTEMS: WINDOWS | 3
CIMN 230 | COMPUTER OPERATING SYSTEMS: UNIX/LINUX | 3
CIMA 212 | MANAGING PROJECTS WITH MICROSOFT PROJECT | 3
CIMA 223A* | COMPUTERIZED ACCOUNTING - QUICKBOOKS—BEGINNING | 1.5
CIMA 223B* | COMPUTERIZED ACCOUNTING - QUICKBOOKS—ADVANCED | 1.5
CIM 274A | WEB DIGITAL IMAGERY - PHOTOSHOP—BEGINNING | 1.5
CIM 274B* | WEB DIGITAL IMAGERY - PHOTOSHOP—ADVANCED | 1.5
CIMW 207 | SOCIAL MEDIA & WEB FUNDAMENTALS | 1.5
CIMW 280‡ | WEB DESIGN - CAPSTONE PORTFOLIO PROJECT | 1.5
Select from Restricted Electives | | 6

**Total Units for the Certificate:** 18

**Course ID** | **Title** | **Units**
---|---|---
CIMW 220 | WEB AND MOBILE 3D & 2D ANIMATION - ADOBE FLASH | 3
or
CIMW 220A/B | WEB ANIMATION: FLASH - BEGINNING/ADVANCED | 1.5, 1.5
CIMW 100A* | WEB SITE DEVELOPMENT - HTML-BEGINNING | 1.5
CIMW 100B* | WEB SITE DEVELOPMENT - HTML—ADVANCED | 1.5
CIMW 274A | WEB DIGITAL IMAGERY - PHOTOSHOP—BEGINNING | 1.5
CIMW 110A/B | CREATING WEB PAGES: DREAMWEAVER – BEGINNING/ADVANCED | 1.5, 1.5
CIMW 280‡ | WEB DESIGN - CAPSTONE PORTFOLIO PROJECT | 1.5
Select from Restricted Electives | | 6

**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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of Website Design.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

**Course ID** | **Title** | **Units**
---|---|---
CIMW 220 | WEB AND MOBILE 3D & 2D ANIMATION - ADOBE FLASH | 3
or
CIMW 220A/B | WEB ANIMATION: FLASH - BEGINNING/ADVANCED | 1.5, 1.5
CIMW 100A* | WEB SITE DEVELOPMENT - HTML-BEGINNING | 1.5
CIMW 100B* | WEB SITE DEVELOPMENT - HTML—ADVANCED | 1.5
CIMW 274A | WEB DIGITAL IMAGERY - PHOTOSHOP—BEGINNING | 1.5
CIMW 110A/B | CREATING WEB PAGES: DREAMWEAVER – BEGINNING/ADVANCED | 1.5, 1.5
CIMW 280‡ | WEB DESIGN - CAPSTONE PORTFOLIO PROJECT | 1.5
Select from Restricted Electives | | 6

**Total Units for the Certificate:** 18

**Restricted Electives:**

CIMW 105 | WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL | 3
CIMW 245 | WEB DEVELOPMENT: PHP & CMS/WORD PRESS E-COMMERCE | 3
CIMW 250A | MICROSOFT ASP.NET - BEGINNING | 3.5
CIMW 260 | WEB DEVELOPMENT: JAVASCRIPT, FRAMEWORKS, JQUERY, AJAX | 3
CIMW 240 | WEB 2.0 DESIGN: CASCADING STYLE SHEETS | 3
CIMW 274B* | WEB DIGITAL IMAGERY - PHOTOSHOP—ADVANCED | 1.5
CIMW 235 | Web Development: Adobe Fireworks | 1.5
*COURSE has a prerequisite, corequisite, limitation, or recommended preparation; see course description
*Final course to be taken

**Web Designer**

**Associate in Science Degree 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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of Website Design.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
• Demonstrate skills in a broad range of media appropriate for a diverse population of technical students.
• Use job skills in technical professional business environments through meaningful internships and capstone projects.

**Course ID** | **Title** | **Units**
--- | --- | ---
CIMW 220 | WEB AND MOBILE 3D & 2D ANIMATION - ADOBE FLASH | 3
or
CIMW 220A/B | WEB ANIMATION: FLASH - BEGINNING/ADVANCED | 1.5, 1.5
CIMW 100A* | WEB SITE DEVELOPMENT - HTML-BEGINNING | 1.5
CIMW 100B* | WEB SITE DEVELOPMENT - HTML-ADVANCED | 1.5
CIM 274A | WEB DIGITAL IMAGERY - PHOTOSHOP -- BEGINNING | 1.5
CIMW 110A/B | CREATING WEB PAGES: DREAMWEAVER - BEGINNING/ADVANCED | 1.5, 1.5
CIMW 280‡ | WEB DESIGN - CAPSTONE PORTFOLIO PROJECT | 1.5
| Select from Restricted Electives | 6

**Total Units for the Major:** 18

**Restricted Electives:**

- CIMW 105 | WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL | 3
- CIMW 245 | WEB DEVELOPMENT: PHP & CMS/WORDPRESS E-COMMERCE | 3
- CIMW 250A | MICROSOFT ASP.NET - BEGINNING | 3.5
- CIMW 260 | WEB DEVELOPMENT: JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX | 3
- CIMW 240 | WEB 2.0 DESIGN: CASCADING STYLE SHEETS | 3
- CIM 274B* | WEB DIGITAL IMAGERY - PHOTOSHOP -- ADVANCED | 1.5
- CIMW 235 | WEB DEVELOPMENT: ADOBE FIREWORKS | 1.5
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description. ‡Final course to be taken.

**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 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**

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.

**Program Student Learning Outcomes**

- Demonstrate key skills for employment in the area of website design and administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Demonstrate skills in a broad range of media appropriate for a diverse population of technical students.

**Course ID** | **Title** | **Units**
--- | --- | ---
CIMP 7A | BUSINESS PROGRAMMING - JAVA --BEGINNING | 3
CIMN 230 | COMPUTER OPERATING SYSTEMS: UNIX/LINUX | 3
CIMN 200 | INTRODUCTION TO NETWORKING | 3
CIMN 210 | NETWORKING ESSENTIALS AND TECHNOLOGIES | 3.5
CIMW 250A | MICROSOFT ASP.NET - BEGINNING | 3.5
CIMW 280‡ | WEB DESIGN - CAPSTONE PORTFOLIO PROJECT | 1.5
| Select from Restricted Electives | 3

**Total Units for the Certificate:** 20.5

**Restricted Electives:**

- CIMW 240 | WEB 2.0 DESIGN: CASCADING STYLE SHEETS | 3
- CIMP 7B* | BUSINESS PROGRAMMING - JAVA --ADVANCED | 3
- CIMW 100A* | WEB SITE DEVELOPMENT - HTML-BEGINNING | 1.5

**Total Units for the Major:** 20.5

**Webmaster Associate in Science Degree 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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate key skills for employment in the area of website design and administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Demonstrate skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

**Course ID** | **Title** | **Units**
--- | --- | ---
CIMP 7A | BUSINESS PROGRAMMING - JAVA --BEGINNING | 3
CIMN 230 | COMPUTER OPERATING SYSTEMS: UNIX/LINUX | 3
CIMN 200 | INTRODUCTION TO NETWORKING | 3
CIMN 210 | NETWORKING ESSENTIALS AND TECHNOLOGIES | 3.5
CIMW 250A | MICROSOFT ASP.NET - BEGINNING | 3.5
CIMW 280‡ | WEB DESIGN - CAPSTONE PORTFOLIO PROJECT | 1.5
| Select from Restricted Electives | 3

**Total Units for the Certificate:** 20.5

**Restricted Electives:**

- CIMW 240 | WEB 2.0 DESIGN: CASCADING STYLE SHEETS | 3
- CIMP 7B* | BUSINESS PROGRAMMING - JAVA --ADVANCED | 3
- CIMW 100A* | WEB SITE DEVELOPMENT - HTML-BEGINNING | 1.5
- CIMW 105 | WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL | 3
CIMN 240* FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION 3
CIMN 250* NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX 3
CIMS 200* INFORMATION SECURITY FUNDAMENTALS 3
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Final course to be taken

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

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.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIMS 200*</td>
<td>INFORMATION SECURITY FUNDAMENTALS</td>
<td>3</td>
</tr>
<tr>
<td>CIMS 210</td>
<td>NETWORK DEFENSE AND COUNTERMEASURES</td>
<td>3</td>
</tr>
<tr>
<td>CIMS 220</td>
<td>INFORMATION SECURITY MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>CIMS 230</td>
<td>SECURITY+</td>
<td>3</td>
</tr>
<tr>
<td>CIMS 250</td>
<td>CYBERLAW</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Award: 15
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate key skills for employment in the areas of office administration.
- Demonstrate comprehensive, broad range introductory computer competencies targeting a diverse and multicultural workforce.
- Complete technically current and challenging ongoing education.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments through meaningful internships and capstone projects.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CIMA 283A</td>
<td>OFFICE SKILLS--OFFICE PROCEDURES</td>
<td>2.5</td>
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<tr>
<td>CIMA 283B</td>
<td>OFFICE SKILLS--KEYBOARDING</td>
<td>0.5</td>
</tr>
<tr>
<td>CIMA 283D</td>
<td>OFFICE SKILLS--WINDOWS</td>
<td>0.5</td>
</tr>
<tr>
<td>CIMA 283E</td>
<td>OFFICE SKILLS--WORD PROCESSING (WORD)</td>
<td>0.5</td>
</tr>
<tr>
<td>CIMA 283F</td>
<td>OFFICE SKILLS--SPREADSHEETS (EXCEL)</td>
<td>0.5</td>
</tr>
<tr>
<td>CIMA 283G</td>
<td>OFFICE SKILLS--DESKTOP PRESENTATION FOR BUS (POWERPOINT)</td>
<td>0.5</td>
</tr>
<tr>
<td>CIMA 283H</td>
<td>OFFICE SKILLS--DATABASE (ACCESS)</td>
<td>0.5</td>
</tr>
<tr>
<td>CIMA 283J</td>
<td>OFFICE SKILLS--DESKTOP PUBLISHING (PUBLISHER)</td>
<td>0.5</td>
</tr>
</tbody>
</table>

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate proper use of measures and procedures to protect personal computer hardware against damage due to electrostatic discharge (ESD).
- State and demonstrate software and hardware troubleshooting skills and procedures for personal computers.
- State, compare, and contrast the major features and tools in modern PC operating systems.
- Describe the functions and performance specifications of the major hardware items in a PC.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMT 215</td>
<td>ELECTRONICS FOR COMPUTER TECHNOLOGISTS</td>
<td>3</td>
</tr>
<tr>
<td>ET 101</td>
<td>SURVEY OF ELECTRONICS</td>
<td>3</td>
</tr>
<tr>
<td>ET 133</td>
<td>DC AND AC FUNDAMENTALS</td>
<td>4</td>
</tr>
<tr>
<td>CMT 220</td>
<td>COMPUTER MAINTENANCE AND REPAIR I</td>
<td>3</td>
</tr>
<tr>
<td>CMT 225*</td>
<td>COMPUTER MAINTENANCE AND REPAIR II</td>
<td>3</td>
</tr>
<tr>
<td>CMT 230*</td>
<td>APPLIED NETWORK TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>CMT 235*</td>
<td>A+ EXAM PREPARATION FOR COMPUTER SERVICE TECHNICIANS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 21-22
*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.

Computer Maintenance Technology
Associate in Science Degree 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate proper use of measures and procedures to protect personal computer hardware against damage due to electrostatic discharge (ESD).
- State and demonstrate software and hardware troubleshooting skills and procedures for personal computers.
- State, compare, and contrast the major features and tools in modern PC operating systems.
- Describe the functions and performance specifications of the major hardware items in a PC.
## Computer Science

### Associate in Science 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.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply critical thinking skills in the analysis of a variety of programming problems.
- Create a correctly functioning program from a previously designed solution to a given programming problem.
- Complete a programming project with multiple programs, working individually and as part of a group.

### Course Requirements

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 1</td>
<td>INTRODUCTION TO COMPUTER INFORMATION SYSTEMS</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIM 10</td>
<td>3</td>
</tr>
<tr>
<td>CIM 174+</td>
<td>Computer Operating Systems: Windows</td>
<td>3</td>
</tr>
<tr>
<td>CMT 215</td>
<td>ELECTRONICS FOR COMPUTER TECHNOLOGISTS</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ET 101</td>
<td>3</td>
</tr>
<tr>
<td>ET 133</td>
<td>DC AND AC FUNDAMENTALS</td>
<td>4</td>
</tr>
<tr>
<td>CMT 220</td>
<td>COMPUTER MAINTENANCE AND REPAIR I</td>
<td>3</td>
</tr>
<tr>
<td>CMT 225+</td>
<td>COMPUTER MAINTENANCE AND REPAIR II</td>
<td>3</td>
</tr>
<tr>
<td>CMT 230+</td>
<td>APPLIED NETWORK TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>CMT 235+</td>
<td>A+ EXAM PREPARATION FOR COMPUTER SERVICE TECHNICIANS</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units for the Major:** 21-22

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

### 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 must be completed at Saddleback College.

### General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: CIM 227, 251, 252, ET 114

### 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.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and analyze current research on a consumer topic.
- Identify and demonstrate an awareness and appreciation for different cultures, traditions and their impact on consumer behaviors.
- Demonstrate competence in dealing with consumer complaints.

### Course Requirements

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 125</td>
<td>HUMAN RELATIONS IN BUSINESS</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>ENTREPRENEURSHIP</td>
<td>3</td>
</tr>
<tr>
<td>CIM 112</td>
<td>MICROSOFT OFFICE</td>
<td>3</td>
</tr>
<tr>
<td>FCS 115</td>
<td>CONSUMER ISSUES</td>
<td>3</td>
</tr>
<tr>
<td>FCS 142</td>
<td>LIFE MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>CWE 180</td>
<td>COOPERATIVE WORK EXPERIENCE: CONSUMER SERVICES</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Units for the Certificate:** 23-24

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

Program Student Learning Outcomes
Students who complete this program will be able to:
• Identify and analyze current research on a consumer topic.
• Identify and demonstrate an awareness and appreciation for different cultures, traditions and their impact on consumer behaviors.
• Demonstrate competence in dealing with consumer complaints.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Identify and analyze current research on a consumer topic.
• Identify and demonstrate an awareness and appreciation for different cultures, traditions and their impact on consumer behaviors.
• Demonstrate competence in dealing with consumer complaints.

Course ID    Title                  Units
BUS 125    HUMAN RELATIONS IN BUSINESS  3
BUS 160    ENTREPRENEURSHIP           3
CIM 112    MICROSOFT OFFICE           3
FCS 115    CONSUMER ISSUES            3
FCS 142    LIFE MANAGEMENT            3
CWE 180    COOPERATIVE WORK EXPERIENCE: CONSUMER SERVICES  2
                       Select one Specialty Area  6-7

Total Units for the Major: 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    TEXTILES                   3
or
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 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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: BUS 12, BUS 103, BUS 104, BUS 135, BUS 137; FN 64, FN 160, FN 171.

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 Advanced Technology and Applied Science Division office.

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

Program Student Learning Outcomes
Students who complete this program will be able to:
• Project a positive attitude and a sense of personal integrity and self-confidence.
• Respect the need to deliver worth service for value received in an employer-employee relationship.
• Practice effective communication skills, visual poise, and proper grooming.
• Perform basic manipulation skills in the areas of hairstyling, hair shaping, hair coloring, texture services, scalp and hair conditioning, skin and makeup, manicures, pedicures and nail extensions.
• Perform basic analytical skills to determine proper makeup, hairstyle and color application for the clients overall image.
• Apply learned theory, technical information and related matter to assure sound judgments, decisions and procedures.

Course ID    Title                  Units
COS 410A    COSMETOLOGY FRESHMAN-LEVEL 1 (400 hours)  12
COS 410B*   COSMETOLOGY INTERMEDIATE-LEVEL 2 (400 hours)  12
COS 410C*   COSMETOLOGY ADVANCED-LEVEL 3 (400 hours)  12
COS 410D*   COSMETOLOGY SENIOR-LEVEL 4 (400 hours)  12

Total Units for the Certificate: 48 (1,600 hours)

*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 Units for the Award: 16

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.
Advanced Culinary Arts
Certificate Program

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

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate preparation for entry level employment in the hospitality industry.
- Demonstrate basic fundamental knowledge and skills related to the culinary arts.
- Demonstrate competence in food production while using safety and sanitation protocol necessary for employment in the culinary arts.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FOODS AND NUTRITION</td>
<td>2</td>
</tr>
<tr>
<td>or FN 261†</td>
<td>INTERNSHIP</td>
<td>1</td>
</tr>
<tr>
<td>or FN 50</td>
<td>FUNDAMENTALS OF NUTRITION</td>
<td>3</td>
</tr>
<tr>
<td>or FN 205</td>
<td>NUTRITION FOR CULINARY PROFESSIONALS</td>
<td>3</td>
</tr>
<tr>
<td>or FN 110*</td>
<td>FOOD PREPARATION ESSENTIALS</td>
<td>3</td>
</tr>
<tr>
<td>or FN 120*</td>
<td>CONTEMPORARY MEALS</td>
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<td>or FN 142*</td>
<td>CLASSICAL FRENCH CUISINE</td>
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<tr>
<td>or FN 171</td>
<td>SANITATION AND SAFETY</td>
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<tr>
<td>or FN 210</td>
<td>SERVSAFE IN FOOD PRODUCTION</td>
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<tr>
<td>or FN 173*</td>
<td>CATERING AND BANQUETS</td>
<td>3</td>
</tr>
<tr>
<td>or FN 240*</td>
<td>CULINARY PRINCIPLES I</td>
<td>3</td>
</tr>
<tr>
<td>or FN 241*</td>
<td>CULINARY PRINCIPLES II</td>
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<tr>
<td>or FN 244*</td>
<td>BAKING FUNDAMENTALS I</td>
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<td>or FN 245</td>
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<tr>
<td>or FN 246*</td>
<td>PANTRY</td>
<td>3</td>
</tr>
<tr>
<td>or FN 275</td>
<td>FOOD AND BEVERAGE OPERATIONS</td>
<td>3</td>
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</table>

Select from Restricted Electives

Total Units for the Certificate: 41-42

Restricted Electives:

- FN 140* CULTURAL CUISINE
- FN 220* FRENCH BISTRO CUISINE
- FN 222* CHINESE CUISINE
- FN 223* ASIAN CUISINE
- FN 226* MEXICAN CUISINE
- FN 227* MEDITERRANEAN CUISINE
- FN 228* ITALIAN CUISINE
- FN 230* VEGETARIAN CUISINE
- FN 232* TECHNIQUES OF HEALTHY COOKING
- FN 236* AMERICAN REGIONAL CUISINE

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

Total Units for the Major: 41-42

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: BUS 104*, 135, 136, 160; FN 64, 160; FCS 115, 142.

Basic Culinary Arts
Certificate Program

The Basic Culinary Arts 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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate preparation for employment in the food service industry.
- Demonstrate practical skills in a wide variety of applications related to the food service.
- Demonstrate proficient safety and sanitation production practices as related to the food service industry.
Basic Culinary Arts

Associate in Science Degree Program
The Basic Culinary Arts 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate preparation for employment in the food service industry.
• Demonstrate practical skills in a wide variety of applications related to the food service.
• Demonstrate proficient safety and sanitation production practices as related to the food service industry.

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate preparation for employment in the catering industry.
• Demonstrate proficient catering skills necessary for business operations.
• Demonstrate competence in the production of catered events.

Suggested coursework not required for the major: BUS 104*, 135, 136, 160; FCS 115, 142; FN 64, 140*, 142*, 160.

Total Units for the Certificate: 29-32

Restricted Electives:
FN 220* FRENCH BISTRO CUISINE 2
FN 222* CHINESE CUISINE 2
FN 226* MEXICAN CUISINE 2
FN 227* MEDITERRANEAN CUISINE 2
FN 230* VEGETARIAN CUISINE 2
FN 236* AMERICAN REGIONAL CUISINE 2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate preparation for employment in the catering industry.
• Demonstrate proficient catering skills necessary for business operations.
• Demonstrate competence in the production of catered events.

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

Total Units for the Certificate: 29-32

Restricted Electives:
FN 220* FRENCH BISTRO CUISINE 2
FN 222* CHINESE CUISINE 2
FN 226* MEXICAN CUISINE 2
FN 227* MEDITERRANEAN CUISINE 2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
Catering

Associate in Science Degree 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate preparation for employment in the catering industry.
- Demonstrate proficient catering skills necessary for business operations.
- Demonstrate competence in the production of catered events.

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<thead>
<tr>
<th>Course ID</th>
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<tbody>
<tr>
<td>BUS 160</td>
<td>ENTREPRENEURSHIP</td>
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<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FOODS AND NUTRITION</td>
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<td>FN 261†</td>
<td>INTERNSHIP</td>
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<td>FN 50</td>
<td>FUNDAMENTALS OF NUTRITION</td>
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<td>FN 205</td>
<td>NUTRITION FOR CULINARY PROFESSIONALS</td>
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<tr>
<td>FN 110*</td>
<td>FOOD PREPARATION ESSENTIALS</td>
<td>3</td>
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<td>FN 120*</td>
<td>CONTEMPORARY MEALS</td>
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<td>FN 171</td>
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<tr>
<td>or</td>
<td></td>
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<tr>
<td>FN 210</td>
<td>SERVSAFE IN FOOD PRODUCTION</td>
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<td>FN 173*</td>
<td>CATERING AND BANQUETS</td>
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<td>FN 241*</td>
<td>CULINARY PRINCIPLES II</td>
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<td>FN 244*</td>
<td>BAKING FUNDAMENTALS I</td>
<td>3</td>
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<td>FN 246*</td>
<td>PANTRY</td>
<td>3</td>
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<tr>
<td>FN 275</td>
<td>FOOD AND BEVERAGE OPERATIONS</td>
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<td>Total Units for the Major:</td>
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Restricted Electives:

| FN 140*   | CULTURAL CUISINE                  | 2     |
| FN 220*   | FRENCH BISTRO CUISINE             | 2     |
| FN 223*   | CHINESE CUISINE                   | 2     |
| FN 226*   | MEXICAN CUISINE                   | 2     |
| FN 227*   | MEDITERRANEAN CUISINE             | 2     |
| FN 228*   | ITALIAN CUISINE                   | 2     |
| FN 232*   | TECHNIQUES OF HEALTHY COOKING     | 2     |
| FN 236*   | AMERICAN REGIONAL CUISINE         | 2     |
| FN 241*   | CULINARY PRINCIPLES II           | 3     |
| FN 245*   | BAKING FUNDAMENTALS II            | 2     |

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

†Recommended to be taken in last semester of program.

Associate in Arts Degree 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate preparation for employment in the catering industry.
- Demonstrate proficiency by performing movement combinations specific to the technique given in class.
- Successfully demonstrate knowledge of dance terminology through writing and various forms of expression.
- Identify technical support through the staging of choreographic works in a dance performance.
- Create dances using phrasing, variations and other elements of design in choreography.
- Demonstrate knowledge of a particular dance form through a variety of written assignments which may include: critiques, internet research, reading assignments, essays, exams and/or discussions in class.

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

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>DAN 9</td>
<td>CHOREOGRAPHY</td>
<td>3</td>
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<tr>
<td>DAN 10</td>
<td>Dance Production</td>
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<td>or</td>
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<tr>
<td>DAN 11</td>
<td>DANCE REHEARSAL AND PERFORMANCE</td>
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<td>DAN 52</td>
<td>BALLET DANCING LEVEL I</td>
<td>1-1.5</td>
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<tr>
<td>DAN 53*</td>
<td>INTERMEDIATE BALLET</td>
<td>1-1.5</td>
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<td>DAN 55*</td>
<td>MODERN DANCE LEVEL I</td>
<td>1-1.5</td>
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<tr>
<td>DAN 56*</td>
<td>INTERMEDIATE MODERN DANCE</td>
<td>1-1.5</td>
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<tr>
<td>DAN 58</td>
<td>JAZZ DANCING LEVEL I</td>
<td>1-1.5</td>
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<tr>
<td>DAN 64</td>
<td>HISTORY OF DANCE</td>
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<td>Select from Restricted Electives</td>
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Total Units for the Major: 18.5-23.5

Restricted Electives:

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

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate designs in 2 languages of mechanical drafting: AutoCAD and Solidworks.

Dance
• Demonstrate proficient drafting skills in 2 dimensional and 3 dimensional drawings.
• Demonstrate knowledge of annotation and dimensioning techniques used in producing drawings in the engineering and manufacturing fields.

**Course ID** | **Title** | **Units**
--- | --- | ---
DR 23 | ENGINEERING GRAPHICS | 3
DR 100 | FUNDAMENTALS OF INDUSTRIAL AND MECHANICAL DESIGN | 3
DR 50* | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 3
ARCH 50* | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 3
DR 51* | COMPUTER-AIDED DRAFTING | 3
ARCH 51* | COMPUTER-AIDED DRAFTING | 3
DR 101* | MECHANICAL DESIGN | 3
DR 102 | MECH DESIGN AND MARKETING PORTFOLIO | 3
DR 120 | ENGINEERING TECHNOLOGY | 3
DR 152* | ADVANCED COMPUTER-AIDED DESIGN | 3
ARCH 152* | ADVANCED COMPUTER-AIDED DESIGN | 3
DR 200* | 3D PARAMETRIC MODELING - SOLIDWORKS | 3
DR 201* | ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS | 3
DR 202* | GEOMETRIC DIMENSIONING AND TOLERANCING | 3
DR 203 | GREEN & SUSTAINABLE MANUFACTURING DESIGN | 3
or
ARCH 51* | COMPUTER-AIDED DRAFTING | 3
DR 101* | MECHANICAL DESIGN | 3
DR 102 | MECH DESIGN AND MARKETING PORTFOLIO | 3
DR 120 | ENGINEERING TECHNOLOGY | 3
DR 152* | ADVANCED COMPUTER-AIDED DESIGN | 3
ARCH 152* | ADVANCED COMPUTER-AIDED DESIGN | 3
DR 200* | 3D PARAMETRIC MODELING - SOLIDWORKS | 3
DR 201* | ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS | 3
DR 202* | GEOMETRIC DIMENSIONING AND TOLERANCING | 3
DR 203 | GREEN & SUSTAINABLE MANUFACTURING DESIGN | 3
Select from Restricted Electives | | 3

**Total Units for the Certificate:** 36

**Restricted Electives**
- ET 101 | SURVEY OF ELECTRONICS | 3
- MFG 200* | INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY | 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.

**Drafting Technology Associate in Science Degree 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.

**Program Student Learning Outcomes**
Students who complete this program will be able to:
- Communicate designs in 2 languages of mechanical drafting: AutoCAD and Solidworks.
- Demonstrate proficient drafting skills in 2 dimensional and 3 dimensional drawings.
- Demonstrate knowledge of annotation and dimensioning techniques used in producing drawings in the engineering and manufacturing fields.

**Course ID** | **Title** | **Units**
--- | --- | ---
DR 23 | ENGINEERING GRAPHICS | 3
DR 100 | FUNDAMENTALS OF INDUSTRIAL AND MECHANICAL DESIGN | 3
DR 50* | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 3
ARCH 50* | INTRODUCTION TO COMPUTER-AIDED DRAFTING | 3
DR 51* | COMPUTER-AIDED DRAFTING | 3

or
ARCH 51* | COMPUTER-AIDED DRAFTING | 3
DR 101* | MECHANICAL DESIGN | 3
DR 102 | MECH DESIGN AND MARKETING PORTFOLIO | 3
DR 120 | ENGINEERING TECHNOLOGY | 3
DR 152* | ADVANCED COMPUTER-AIDED DESIGN | 3
ARCH 152* | ADVANCED COMPUTER-AIDED DESIGN | 3
DR 200* | 3D PARAMETRIC MODELING - SOLIDWORKS | 3
DR 201* | ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS | 3
DR 202* | GEOMETRIC DIMENSIONING AND TOLERANCING | 3
DR 203 | GREEN & SUSTAINABLE MANUFACTURING DESIGN | 3
Select from Restricted Electives | | 3

**Total Units for the Major:** 36

**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.

**Program Student Learning Outcomes**
Students who complete this program will be able to:
- Describe the major restoration techniques and identify the benefits and limitations of each approach.
- Develop a restoration plan for a specific site.
- Identify the regulatory and technical requirements for monitoring restoration sites.

**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 Units for the Certificate:** 28

**Restricted Electives**
- 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
CWE 180  CO-OP-ED ECOLOGICAL RESTORATION    1-2
ENV 24   NATURAL HISTORY OF CALIFORNIA        4
ENV 105a ENVIRONMENTAL STUDIES INTERNSHIP     2
ENV 123  WATER AND SOIL CONSERVATION         3
ENV 202  GREEN LIVING                         2
GEOG 110 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) 2

or

GIS 110 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) 2
HORT 113 SOILS AND FERTILIZERS                3
HORT 116 IRRIGATION SYSTEMS                   3
HORT 166 ORNAMENTAL NATIVE PLANTS             1.5

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

Suggested coursework not required for the major: ARCH 50/DR 50; ENV 106; GEOL 23/ENV 23.
Economics
Associate in Arts 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.

Program Student Learning Outcomes
Students who complete the Economics Program will be able to:
• Define scarcity, and show how it relates to the concepts of choice and cost.
• Outline the role of comparative advantage in exchange.
• Describe and analyze the economy in quantitative terms using national income and employment data from the standpoint of current and constant dollars.
• Utilize the demand and supply model and use the model to critically analyze real world examples.
• Explain the role of prices in allocating goods, services and factors of production.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ECON 2*</td>
<td>PRINCIPLES (MACRO)</td>
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<tr>
<td>ECON 4*</td>
<td>PRINCIPLES (MICRO)</td>
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<td>MATH 3A*</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
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<tr>
<td>MATH 11*</td>
<td>A BRIEF COURSE IN CALCULUS</td>
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<td>MATH 3B*</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
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<td></td>
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<tr>
<td>MATH 10*</td>
<td>INTRODUCTION TO STATISTICS</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
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<td></td>
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</tbody>
</table>
| Total Units for the Major: 18-22

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 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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Program Student Learning Outcomes:
Upon completion of the degree, students will be able to do the following:
• Define scarcity, and show how it relates to the concepts of choice and cost.
• Outline the role of comparative advantage in exchange.
• Describe and analyze the economy in quantitative terms using national income and employment data from the standpoint of current and constant dollars.
• Utilize the demand and supply model to critically analyze real-world examples.
• Explain the role of prices in allocating goods, services, and factors of production.

Education
(Also see Childhood Development and Education)

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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate knowledge of common electronic components: identify, describe, and determine the performance of common analog and digital electronic components.
- Demonstrate knowledge of common electronic circuits: identify, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of electronics test equipment: show proper use of and connection to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- Demonstrate electronics troubleshooting skills: state and show troubleshooting skills and procedures for analog and digital electronics.
- Describe and determine the performance of common analog and digital electronic communication systems.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<td>ET 114*</td>
<td>DIGITAL ELECTRONIC CIRCUITS</td>
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<tr>
<td>ET 118*</td>
<td>ELECTRONIC COMMUNICATION SYSTEMS</td>
<td>4</td>
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<tr>
<td>ET 133</td>
<td>DC AND AC FUNDAMENTALS</td>
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</tr>
<tr>
<td>ET 135</td>
<td>SEMICONDUCTOR DEVICES AND CIRCUITS</td>
<td>4</td>
</tr>
<tr>
<td>ET 200</td>
<td>DIGITAL SIGNAL PROCESSING AND MICROCONTROLERS</td>
<td>4</td>
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</table>

Total Units for the Certificate: 20

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

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 software and repair.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate knowledge of common electronic components: identify, describe, and determine the performance of common analog and digital electronic components.
- Demonstrate knowledge of common electronic circuits: identify, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of electronics test equipment: show proper use of and connection to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- Demonstrate electronics troubleshooting skills: state and show troubleshooting skills and procedures for analog and digital electronics.
- Describe the main hardware and software components of a modern Windows based personal computer system.

<table>
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<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>CMT 220</td>
<td>COMPUTER MAINTENANCE AND REPAIR I</td>
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<tr>
<td>CMT 225</td>
<td>COMPUTER MAINTENANCE AND REPAIR II</td>
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<td>ET 114*</td>
<td>DIGITAL ELECTRONIC CIRCUITS</td>
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<td>ET 133</td>
<td>DC AND AC FUNDAMENTALS</td>
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<td>ET 135</td>
<td>SEMICONDUCTOR DEVICES AND CIRCUITS</td>
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<tr>
<td>ET 200*</td>
<td>DIGITAL SIGNAL PROCESSING AND MICROCONTROLERS</td>
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</table>

Total Units for the Certificate: 22

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

Digital Electronic Technology Associate in Science Degree 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 software and repair.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate knowledge of common electronic components: identify, describe, and determine the performance of common analog and digital electronic components.
- Demonstrate knowledge of common electronic circuits: identify, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of electronics test equipment: show proper use of and connection to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- Demonstrate electronics troubleshooting skills: state and show troubleshooting skills and procedures for analog and digital electronics.
- Describe the main hardware and software components of a modern Windows based personal computer system.

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 DC AND AC FUNDAMENTALS 4
ET 135* SEMICONDUCTOR DEVICES AND CIRCUITS 4
ET 200* DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS 4
Total Units for the Major: 22

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

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

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: 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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Identify, describe, and determine the performance of common analog and digital electronic components.
- Draw, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of and connections to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- State and demonstrate troubleshooting skills and procedures for analog and digital electronics.

**Course ID Title Units**
ET 114* DIGITAL ELECTRONIC CIRCUITS 4
ET 133 DC AND AC FUNDAMENTALS 4
ET 135* SEMICONDUCTOR DEVICES AND CIRCUITS 4
Select from Restricted Electives 6-8

Total Units for the Certificate: 18-20

**Restricted Electives**
ET 118* ELECTRONIC COMMUNICATION SYSTEMS 4
ET 200* DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS 4
ET 201 ROBOTICS FUNDAMENTALS 2
ET 202* INTERMEDIATE ROBOTICS 2

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

**General Electronic Technology Associate in Science Degree 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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Identify, describe, and determine the performance of common analog and digital electronic components.
- Draw, describe, and determine the performance of common analog and digital electronic circuits.
- Demonstrate proper use of and connections to common laboratory test equipment for measuring the performance of common analog and digital circuits.
- State and demonstrate troubleshooting skills and procedures for analog and digital electronics.

**Course ID Title Units**
ET 114* DIGITAL ELECTRONIC CIRCUITS 4
ET 133 DC AND AC FUNDAMENTALS 4
ET 135* SEMICONDUCTOR DEVICES AND CIRCUITS 4
Select from Restricted Electives 6-8

Total Units for the Major: 18-20

**Restricted Electives**
ET 118* ELECTRONIC COMMUNICATION SYSTEMS 4
ET 200* DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS 4
ET 201 ROBOTICS FUNDAMENTALS 2
ET 202* INTERMEDIATE ROBOTICS 2

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

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

**General Education Requirements for Associate Degrees**
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.

Suggested coursework not required for the major: Any Electronic Technology course not taken in certificate; CIM 10; CMT 220, CMT 225, CMT 230; MATH 7, MATH 124, MATH 251, 253, 255; PHYS 2A, PHYS 2B, PHYS 20.

**Basic Analog and Digital Electronics Occupational Skills Award**

The Basic Analog and Digital Electronics Occupational Skills Award documents successful completion of the beginning courses in the Electronic Technology certificates. This award establishes that the student has studied the basics of analog and digital electronics, both in theory and in laboratory testing and troubleshooting.
**Emergency Medical Technician Occupational Skills Award**

The Emergency Medical Technology curriculum is designed to prepare 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 207* | EMERGENCY MEDICAL TECHNICIAN PROCEDURES | 11
EMT 207C* | EMERGENCY MEDICAL TECHNICIAN CLINICAL OBSERVATION | 0.75

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

**Total Units for the Award: 11.75**

**Engineering Associate in Science Degree**

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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate understanding of classical mechanics (Newtonian mechanics).
- Use Newtonian mechanics to solve structural problems in a static environment.
- Demonstrate understanding of material properties when solving static equilibrium problems.

**Course ID** | **Title** | **Units**
--- | --- | ---
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

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

**Total Units for the Major: 51**

**Associate in Arts Degree in English for Transfer**

The English curriculum provides the transfer student the opportunity to earn an Associate in Arts in English for Transfer degree that will allow completion of both general education requirements and major preparatory course work. In addition, the selection of courses ensures the English major a broad perspective on the history of literature, coupled with the necessary writing, thinking, and research training essential for academic achievement. Students who complete the Associate in Arts Degree in English for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate writing fluency, critical thinking ability, and research skills. These skills will include grammar review as well as expository and persuasive writing instruction.
- Use skill and creativity along with critical judgment of literary forms as they compose their own nonfiction, short stories, novels, poems, plays, and screenplays.
- Examine traditional literary themes and genres in courses addressing American, British and World literature, and students will explore contemporary themes and genres in courses such as African-American Literature, Ethnic Voices in Literature, and Women Authors. The broad spectrum of literature courses allows students to focus on a particular area of interest.

**Course ID** | **Title** | **Units**
--- | --- | ---
ENG 1B* | PRINCIPLES OF COMPOSITION II | 3
ENG 25 | INTRODUCTION TO LITERATURE | 3

**Group A: Select two of the following courses (6 units)**

- ENG 15A* | SURVEY OF AMERICAN LITERATURE - 1620-1860 | 3
- ENG 15B* | SURVEY OF AMERICAN LITERATURE - 1860-CONTEMPORARY | 3
- ENG 17A* | SURVEY OF ENGLISH LITERATURE - BEOWULF TO ROMANTIC MOVEMENT | 3
- ENG 17B* | SURVEY OF ENGLISH LIT - ROMANTIC MOVEMENT TO THE PRESENT | 3
- ENG 21A* | WORLD LITERATURE - ANCIENT TO 17TH CENTURY | 3
- ENG 21B* | WORLD LITERATURE - 17TH CENTURY TO MODERN PERIOD | 3

**Group B: (3 Units)**

- ENG 3* | INTRODUCTION TO CREATIVE WRITING | 3

**Group C: Select one of the following courses or any course from List A not already used (3-5)**

- ENG 1A* | PRINCIPLES OF COMPOSITION I | 4
- SPAN 1* | ELEMENTARY SPANISH | 5
- SPAN 2* | ELEMENTARY SPANISH | 5
- SPAN 3* | INTERMEDIATE SPANISH | 5
- JRN 2* | NEWS WRITING | 3
- BUS 104* | BUSINESS COMMUNICATION | 3
- SP 30 | INTRODUCTION TO ORAL INTERPRETATION | 3
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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate writing fluency, critical thinking ability, and research skills. These skills will include grammar review as well as expository and persuasive writing instruction.
- Use skill and creativity along with critical judgment of literary forms as they compose their own nonfiction, short stories, novels, poems, plays, and screenplays.
- Examine traditional literary themes and genres in courses addressing American, British and World literature, and students will explore contemporary themes and genres in courses such as African-American Literature, Ethnic Voices in Literature, and Women Authors. The broad spectrum of literature courses allows students to focus on a particular area of interest.

**Course ID** | **Title** | **Units**
--- | --- | ---
ENG 1A* | PRINCIPLES OF COMPOSITION I | 4
ENG 1B* | PRINCIPLES OF COMPOSITION II | 3
Select from Restricted Electives | 12

Total Units for the Major: 19

**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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate improvement in their grammar.
- Demonstrate improvement in their speaking and comprehension skills.
- Demonstrate improvement in their reading and vocabulary skills.
- Demonstrate improvement in their overall writing skills.

**Course ID** | **Title** | **Hours**
--- | --- | ---
ESL 320* | Beginning Multiskills I | 99.6
ESL 321* | Beginning Multiskills II | 99.6
ESL 322 | Beginning Conversation | 49.8
ESL 323* | Beginning Pronunciation | 33.2
ESL 325* | Beginning Reading and Writing | 49.8

Total Hours for the Certificate: 332

**Advanced Level**
The required 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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate improvement in their grammar.
- Demonstrate improvement in their speaking and comprehension skills.
• Demonstrate improvement in their reading and vocabulary skills.
• Demonstrate improvement in their overall writing skills.

Core Courses

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 340*</td>
<td>Advanced Multiskills</td>
<td>99.6</td>
</tr>
<tr>
<td>ESL 342*</td>
<td>Advanced Conversation</td>
<td>49.8</td>
</tr>
<tr>
<td>ESL 343*</td>
<td>Advanced Pronunciation</td>
<td>49.8</td>
</tr>
</tbody>
</table>

Select one Vocabulary course:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 344*</td>
<td>Idioms and Expressions in American English</td>
<td>33.2</td>
</tr>
<tr>
<td>ESL 354*</td>
<td>Vocabulary Skills for College</td>
<td>49.8</td>
</tr>
</tbody>
</table>

Select one Academic/Writing course:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 350*</td>
<td>Essential Academic Skills</td>
<td>99.6</td>
</tr>
<tr>
<td>ESL 346*</td>
<td>Advanced Writing for Work</td>
<td>49.8</td>
</tr>
<tr>
<td>ESL 345*</td>
<td>Advanced Reading and Writing</td>
<td>49.8</td>
</tr>
<tr>
<td>ESL 888*</td>
<td>ESL Skills Lab</td>
<td>16.6</td>
</tr>
</tbody>
</table>

Select one Grammar course with a lab

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 347*</td>
<td>Advanced Grammar Review</td>
<td>49.8</td>
</tr>
<tr>
<td>ESL 999*</td>
<td>ESL Laboratory</td>
<td>16.6</td>
</tr>
</tbody>
</table>

Select one Grammar Review course:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 357*</td>
<td>Grammar Review for College</td>
<td>49.8</td>
</tr>
<tr>
<td>ESL 999*</td>
<td>ESL Laboratory</td>
<td>16.6</td>
</tr>
</tbody>
</table>

Total Hours for the Certificate: 348

Restricted Electives:

- ESL 355* ESL Reading for College: American Literature: 49.8
- ESL 358* Listening and Notetaking 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.

Environmental Studies

Environmental Studies Associate in Arts Degree Program

Environmental Studies is 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 prepare students to transfer to a baccalaureate institution and complete a four year degree in an environmental related field of study, including, but not limited to, Environmental Studies, Environmental Science and Management, Environmental Policy, Energy Studies, Sustainability Studies, Conservation Biology, Ecology, and Wildlife Management. 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Demonstrate social responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.

Environmental Studies

Environmental Studies Associate in Arts Degree Program

Environmental Studies is 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.

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Program Student Learning Outcomes

Students who complete this program will be able to:

• Demonstrate social responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.
• Demonstrate scientific responsibility by using critical thinking skills.

Water Resources and Conservation Certificate Program

Water Resources and Conservation provides students with an integrated background and critical knowledge of water resources and conservation issues. Students will gain skills and practical application of those skills to design, implement, and evaluate water conservation programs that address current and future water issues at a local, national, and global level. The program combines classroom, laboratory, and field study instruction providing students with a well-rounded preparation in the water resources and conservation field. The goal of the program is to train and prepare students for a career in the water field as water...
efficiency/conservation technicians, coordinators, or specialists, or as water resources specialists and technicians. The program will also prepare students for water conservation certification examinations administered by professional associations within the water industry.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Design, implement, evaluate and market water conservation programs to a broad audience.
- Evaluate water usage patterns for rural, urban, residential, and commercial sites; recommend water efficiency measures as well as alternate water sources.
- Understand water distribution, flow, and elimination systems; basic hydraulics; quality issues; balance and time of use.
- Understand the many stressors to water accessibility and how they interact to affect supply and demand along with other issues.
- Monitor, collect, interpret and analyze data to evaluate effectiveness of programs and modify them over time.
- Calculate water and cost savings and produce comprehensive cost/benefit analysis reports.
- Develop basic knowledge of water resource economics and how economics relates to supply and demand.

**Environmental 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.

**Sustainability Studies**

**Ethnic Studies**

**Associate in Arts Degree Program**
The curriculum in the Ethnic 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 Ethnic 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 astheonsticity, 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 Ethnic Studies Program.

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

**Program Student Learning Outcomes**
Students who complete this program will be able to:
- Describe the ethnic and cultural landscape of the United States.
- Articulate the historical, social, and cultural contexts of specific racial and ethnic groups within the United States.
- Describe the processes of racialization and social differentiation in historical and geographical context.
- Demonstrate an understanding of the various factors that play a role in the formation of cultural identity.
- Compare representations of borderlands, hybridity, migration, and diaspora from different cultures.
- Critically analyze power and inequality in a multiethnic and multicultural context.
- Analyze the major factors that influence cross-cultural understandings and interactions between ethnic and racial groups in the United States.

**Core Requirements**
(Both courses are required for a major)

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS 1</td>
<td>Multicultural Experiences in the United States</td>
<td>3</td>
</tr>
<tr>
<td>CCS 2</td>
<td>Multicultural Identities in the United States</td>
<td>3</td>
</tr>
</tbody>
</table>

**Breadth Requirements**

Select six units from the following courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 4</td>
<td>NATIVE AMERICAN CULTURES</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 7</td>
<td>INDIANS OF SOUTHERN CALIFORNIA</td>
<td>3</td>
</tr>
<tr>
<td>CCS 10</td>
<td>MARGINS AND BORDER CROSSINGS</td>
<td>3</td>
</tr>
<tr>
<td>CD 117*</td>
<td>TEACHING IN A DIVERSE SOCIETY</td>
<td>3</td>
</tr>
<tr>
<td>HIST 21</td>
<td>WOMEN IN UNITED STATES HISTORY - A MULTICULTURAL PERSPECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>HIST 33</td>
<td>THE POLITICAL/SOCIAL HISTORY OF THE CHICANAS/OS</td>
<td>3</td>
</tr>
<tr>
<td>HIST 81</td>
<td>AFRICAN AMERICAN HISTORY</td>
<td>3</td>
</tr>
<tr>
<td>HS 131</td>
<td>MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 16*</td>
<td>INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>SOC 6</td>
<td>INTRODUCTION TO ASIAN CULTURES IN THE UNITED STATES</td>
<td>3</td>
</tr>
<tr>
<td>SOC 20</td>
<td>ETHNIC CULTURES OF THE UNITED STATES</td>
<td>3</td>
</tr>
</tbody>
</table>
FCS 115 CONSUMER ISSUES

Those who want to use their background in business or communications. Those desiring 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.

Students who complete this program will be able to:

- Identify and analyze current research on a consumer science topic.
- Use the psychology of advertising and the marketplace and identify motivations and trends.
- Develop a personal and/or family budget.

Total Units for the Certificate: 27

Restricted Electives

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASH 31</td>
<td>TEXTILES</td>
<td>3</td>
</tr>
<tr>
<td>BUS 31</td>
<td>TEXTILES</td>
<td>3</td>
</tr>
<tr>
<td>FASH 110*</td>
<td>CONTEMPORARY CLOTHING CONSTRUCTION</td>
<td>3</td>
</tr>
<tr>
<td>FCS 115</td>
<td>CONSUMER ISSUES</td>
<td>3</td>
</tr>
<tr>
<td>FN 50</td>
<td>FUNDAMENTALS OF NUTRITION</td>
<td>3</td>
</tr>
<tr>
<td>FN 110*</td>
<td>FOOD PREPARATION ESSENTIALS</td>
<td>3</td>
</tr>
<tr>
<td>ID 110</td>
<td>SPACE PLANNING</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and analyze current research on a consumer science topic.
- Use the psychology of advertising and the marketplace and identify motivations and trends.
- Develop a personal and/or family budget.

Total Units for the Certificate: 27

Restricted Electives

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASH 112*</td>
<td>FASHION SEWING--ADVANCED</td>
<td>3</td>
</tr>
<tr>
<td>FASH 141</td>
<td>APPAREL SELECTION</td>
<td>3</td>
</tr>
<tr>
<td>FASH 144</td>
<td>FASHION TRENDS AND CULTURAL COSTUMES</td>
<td>3</td>
</tr>
<tr>
<td>FCS 142</td>
<td>LIFE MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>FN 64</td>
<td>NUTRITION ISSUES</td>
<td>3</td>
</tr>
<tr>
<td>FN 120*</td>
<td>CONTEMPORARY MEALS</td>
<td>3</td>
</tr>
<tr>
<td>FN 160</td>
<td>NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>FN 171</td>
<td>SANITATION AND SAFETY</td>
<td>2</td>
</tr>
<tr>
<td>FN 210</td>
<td>SERVSAFE IN FOOD PRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>ID 122</td>
<td>HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I</td>
<td>3</td>
</tr>
<tr>
<td>ID 125</td>
<td>HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Associate in Science Degree

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

**General Education Requirements for Associate Degrees**
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](http://www.assist.org) and to the transfer institution's catalog for transfer requirements.

Suggested coursework not required for the major: FASH 120, FASH 130, FASH 140; FN 140, FN 142, FN 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 the Transfer Patterns section of this catalog or of the intended college of transfer.

**Course ID** | **Title** | **Units**
---|---|---
FASH 31 | TEXTILES | 3
FASH 120 | TAILORING | 3
FASH 130* | FLAT PATTERN DESIGN | 4
FASH 136* | APPAREL DESIGN | 3

**Fashion Design Certificate Program**

The 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.

**Program Student Learning Outcomes**

- Produce a professional portfolio showcasing their advanced design skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
- Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
- Create a professional resume showcasing their advanced design skills. This will increase job opportunities in the field as well as promotion for those already employed.
Fashion Design

Fashion Design

Associate in Science Degree Program

The 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.

• Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.

• Create a professional resume showcasing their skills. This will increase job opportunities in the field as well as promotion for those already employed.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tr>
<td>FASH 31</td>
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<td>or</td>
<td>BUS 31 TEXTILES</td>
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<tr>
<td>FASH 101</td>
<td>INTRODUCTION TO FASHION CAREERS</td>
<td>3</td>
</tr>
<tr>
<td>FASH 111*</td>
<td>SEWING FOR FASHION DESIGN II</td>
<td>3</td>
</tr>
<tr>
<td>FASH 112*</td>
<td>FASHION SEWING--ADVANCED</td>
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</tr>
<tr>
<td>or</td>
<td>FASH 124* WEARABLE ART</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>FASH 211* ADVANCED DRESSMAKING AND CUSTOM SEWING</td>
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</tr>
<tr>
<td>FASH 130*</td>
<td>FLAT PATTERN DESIGN</td>
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<td>FASH 132*</td>
<td>DRAPING FASHION DESIGNS</td>
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<td>FASH 141</td>
<td>APPAREL SELECTION</td>
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<td>FASH 144</td>
<td>FASHION TRENDS AND CULTURAL COSTUMES</td>
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<td>FASH 145*§</td>
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<td>or</td>
<td>BUS 145*§ INTERNSHIP</td>
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<td>or</td>
<td>CWE 180*† CO-OP-ED FASHION</td>
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<tr>
<td>FASH 150</td>
<td>FASHION APPAREL AND PROFESSIONAL TECHNIQUES</td>
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<tr>
<td>FASH 154</td>
<td>FASHION ILLUSTRATION</td>
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<tr>
<td>FASH 247</td>
<td>SPECIAL EVENTS PARTICIPATION</td>
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<td>or</td>
<td>FASH 254 FASHION IN SOUTHERN CALIFORNIA</td>
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<tr>
<td>FASH 260*«</td>
<td>THE DIGITAL FASHION IMAGE</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>FASH 204« UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION</td>
<td>1</td>
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<tr>
<td>and</td>
<td>FASH 225« APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP</td>
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</table>

Total Units for the Certificate: 36

Optional Lab/Studio

FASH 212 CONSTRUCTION LAB
FASH 213† DESIGNER’S LAB
FASH 214* COUTURE LAB
FASH 216 COSTUMER’S LAB
FASH 219 DRESSMAKING LAB
FASH 220* TAILOR’S LAB
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180.
«Take FASH 260 OR both FASH 204 and FASH 225.

Accessory Design

Occupational Skills Award

The Accessory Design Occupational Skills Award prepares students with the skills necessary to become a successful designer of shoes, bags, millinery, jewelry, small leather goods, shawls, ties, pocket squares and other accessories. The curriculum prepares students with design skills, product development, technical skills, sourcing materials, and manufacturing the final goods. Students will experience designing a line of accessories and complete an internship/CWE related to the accessory design industry.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 31</td>
<td>TEXTILES</td>
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</tr>
<tr>
<td>FASH 101</td>
<td>INTRODUCTION TO FASHION CAREERS</td>
<td>3</td>
</tr>
<tr>
<td>FASH 111*</td>
<td>SEWING FOR FASHION DESIGN II</td>
<td>3</td>
</tr>
<tr>
<td>FASH 112*</td>
<td>FASHION SEWING--ADVANCED</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>FASH 124* WEARABLE ART</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>FASH 211* ADVANCED DRESSMAKING AND CUSTOM SEWING</td>
<td>3</td>
</tr>
<tr>
<td>FASH 130*</td>
<td>FLAT PATTERN DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>FASH 132*</td>
<td>DRAPING FASHION DESIGNS</td>
<td>3</td>
</tr>
<tr>
<td>FASH 141</td>
<td>APPAREL SELECTION</td>
<td>3</td>
</tr>
<tr>
<td>FASH 144</td>
<td>FASHION TRENDS AND CULTURAL COSTUMES</td>
<td>3</td>
</tr>
<tr>
<td>FASH 145*§</td>
<td>INTERNSHIP</td>
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<tr>
<td>or</td>
<td>BUS 145*§ INTERNSHIP</td>
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<tr>
<td>or</td>
<td>CWE 180*† CO-OP-ED FASHION</td>
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<td>FASH 150</td>
<td>FASHION APPAREL AND PROFESSIONAL TECHNIQUES</td>
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<td>FASHION ILLUSTRATION</td>
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</tr>
<tr>
<td>FASH 247</td>
<td>SPECIAL EVENTS PARTICIPATION</td>
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<tr>
<td>or</td>
<td>FASH 254 FASHION IN SOUTHERN CALIFORNIA</td>
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<tr>
<td>FASH 260*«</td>
<td>THE DIGITAL FASHION IMAGE</td>
<td>2</td>
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<tr>
<td>or</td>
<td>FASH 204« UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION</td>
<td>1</td>
</tr>
<tr>
<td>and</td>
<td>FASH 225« APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP</td>
<td>1</td>
</tr>
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</table>

Total Units for the Major: 36

Optional Lab/Studio

FASH 212 CONSTRUCTION LAB
FASH 213† DESIGNER’S LAB
FASH 214* COUTURE LAB
FASH 216 COSTUMER’S LAB
FASH 219 DRESSMAKING LAB
FASH 220* TAILOR’S LAB

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: BUS 136, BUS 138, BUS 160; ETT 42; FCS 115; FASH 120*, FASH 147, FASH 209*, FASH 221*, FASH 230*, FASH 235*.
After completion of the skills award, students will be eligible for a position in the following areas: assistant accessory designer, accessory designer, shoe designer, high performance shoe designer, eye wear designer, milliner, handbag designer, small leather goods designer, technical designer for accessories, accessory product development, sourcing and manufacturing of accessories.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>FASH 100</td>
<td>SEWING FOR FASHION DESIGN I</td>
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<td>FOOTWEAR DESIGN AND CONSTRUCTION</td>
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<td>FASH 240</td>
<td>DYE PROCESSES ON FABRICS</td>
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<td>FASH 260*</td>
<td>THE DIGITAL FASHION IMAGE</td>
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<td>or</td>
<td>UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION</td>
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<td>and</td>
<td>APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP</td>
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<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FASHION</td>
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<td>FASH 254</td>
<td>FASHION IN SOUTHERN CALIFORNIA</td>
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<tr>
<td>or</td>
<td>ECO-FRIENDLY FASHION TOUR</td>
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<tr>
<td>FASH 223</td>
<td>MILLINERY DESIGN</td>
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<tr>
<td>FASH 224</td>
<td>ACCESSORY DESIGN</td>
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</tbody>
</table>

**Total Units for the Award: 15-16**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
«Take FASH 260 OR both FASH 204 and FASH 225

**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 advertisements/promotion. Coursework 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.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<td>FASH 111*</td>
<td>SEWING FOR FASHION DESIGN II</td>
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<td>or</td>
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<td>FASH 206*</td>
<td>DESIGNING &amp; CONSTRUCTING KNITWEAR, ACTIVEWEAR, SWIMWEAR</td>
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<td>or</td>
<td>DRAPIING FASHION DESIGNS</td>
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<tr>
<td>FASH 144</td>
<td>FASHION TRENDS AND CULTURAL COSTUMES</td>
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<td>or</td>
<td>COSTUME DESIGN</td>
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<td>or</td>
<td>DYE PROCESSES ON FABRICS</td>
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<td>or</td>
<td>SEWING VINTAGE FASHIONS</td>
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<tr>
<td>or</td>
<td>MILLINERY DESIGN</td>
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<td>FASH 145*</td>
<td>INTERNSHIP</td>
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<td>or</td>
<td>INTERNSHIP</td>
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</tbody>
</table>

**Total Units for the Award: 16-17**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

**Fashion Technology Occupational Skills Award**

The Fashion Technology Occupational Skills Award prepares students with skills and experience in the latest fashion technologies. This award is focused both on students entering into the fashion industry for the first time and students who are already fashion professionals who need to upgrade skills for career advancement and retention. Upon completion of this skills award students may acquire positions as: Fashion Designer or assistant designer, technical designer, textile surface designer, fashion web store designer, fashion entrepreneur, product development, apparel information manager, pattern maker, pattern grader, pattern marker maker, fashion CAD designer, fashion buyer, technology trainer for fashion industry and fashion merchandiser.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>FASH 131*</td>
<td>CAD PATTERNMAKING WITH TUKATECH</td>
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<tr>
<td>FASH 204</td>
<td>UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION</td>
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</tr>
<tr>
<td>FASH 225</td>
<td>APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP</td>
<td>1</td>
</tr>
<tr>
<td>FASH 260*</td>
<td>THE DIGITAL FASHION IMAGE</td>
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<tr>
<td>FASH 254</td>
<td>FASHION IN SOUTHERN CALIFORNIA</td>
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<td>or</td>
<td>ECO-FRIENDLY FASHION TOUR</td>
<td>1</td>
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<td>FASH 145§</td>
<td>INTERNSHIP</td>
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<td>or</td>
<td>INTERNSHIP</td>
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<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FASHION</td>
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</table>

**Total Units for the Award: 10**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180

**Sustainable Fashion and Social Entrepreneurship Occupational Skills Award**

The Sustainable Fashion and Social Entrepreneurship Occupational Skills Award prepares the student with basic skills necessary to develop, design, source, and manufacture a socially and environmentally friendly line of clothing or accessories. Coursework covers developing a line and designing for a cause, ethics of fashion, sourcing and manufacturing in an eco friendly way and marketing your line. Students will complete an internship and tour other eco friendly fashion industry leaders.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>FASH 31</td>
<td>TEXTILES</td>
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<td>or</td>
<td>FLAT PATTERN DESIGN</td>
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<td>or</td>
<td>DRAPIING FASHION DESIGNS</td>
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<td>or</td>
<td>APPAREL DESIGN</td>
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<tr>
<td>or</td>
<td>DESIGNING FOR A CAUSE AND SUSTAINABLE FASHION</td>
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<td>DESIGNING FOR THE FASHION INDUSTRY</td>
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<td>or</td>
<td>INTERNSHIP</td>
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<tr>
<td>CWE 180†</td>
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**Total Units for the Award: 16-17**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
FASH 240  DYE PROCESSES ON FABRICS  3
FASH 207  ECO-FRIENDLY FASHION TOUR  1
FASH 247  SPECIAL EVENTS PARTICIPATION  1
or
FASH 254  FASHION IN SOUTHERN CALIFORNIA  1

Total Units for the Award: 15-17

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
• Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
• Create a professional resume showcasing their skills. This will increase job opportunities in the field as well as promotion for those already employed.

Course ID  Title  Units
FASH 31  TEXTILES  3
or
BUS 31  TEXTILES  3
FASH 101  INTRODUCTION TO FASHION CAREERS  3
FASH 143  FASHION BUYING AND MERCHANDISING  3
or
FASH 140  FASHION IMAGE  3
or
FASH 141  APPAREL SELECTION  3
FASH 144  FASHION TRENDS AND CULTURAL COSTUMES  3
FASH 147  SPECIAL EVENTS COORDINATION AND PROMOTION  3
or
FASH 148  VISUAL MERCHANDISING  3
or
FASH 150  FASHION APPAREL AND PROFESSIONAL TECHNIQUES  3
FASH 154  FASHION ILLUSTRATION  3
FASH 254  FASHION IN SOUTHERN CALIFORNIA  1
FASH 145§  INTERNSHIP  1
or
BUS 145§  INTERNSHIP  1
and
CWE 180†  CO-OP-ED FASHION  1
Select one course from each Group  8

Total Units for the Certificate: 38

Group 1
BUS 136  PRINCIPLES OF RETAILING  3
BUS 137  PROFESSIONAL SELLING FUNDAMENTALS  3
BUS 160  ENTREPRENEURSHIP  3

Group 2
FASH 260×  THE DIGITAL FASHION IMAGE  2
or
FASH 204×  UNDERSTANDING APPAREL PRINCIPLES-IMLS CERTIFICATION  1
and
FASH 225×  APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP  1

Group 3
FASH 100  SEWING FOR FASHION DESIGN I  3
FASH 110*  CONTEMPORARY CLOTHING CONSTRUCTION  3

Optional Lab/Studio
FASH 212  CONSTRUCTION LAB  1
FASH 219  DRESSMAKING LAB  1
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180.
×Take FASH 260 OR both FASH 204 and FASH 225.

Suggested coursework not required for the major: BUS 12, 103, 125, 135, 138, 150; CIMA 104; FCS 115; GD 140 /ART 140, 147.

Fashion Merchandising
Associate in Science Degree 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
• Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
• Create a professional resume showcasing their skills. This will increase job opportunities in the field as well as promotion for those already employed.

Course ID  Title  Units
FASH 31  TEXTILES  3
or
BUS 31  TEXTILES  3
FASH 101  INTRODUCTION TO FASHION CAREERS  3
FASH 143  FASHION BUYING AND MERCHANDISING  3
or
FASH 140  FASHION IMAGE  3
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180.
FASH 144  FASHION TRENDS AND CULTURAL COSTUMES  3
FASH 147  SPECIAL EVENTS COORDINATION AND PROMOTION  3

and
CWE 180†  CO-OP-ED FASHION  1
Select one course from each Group  8

Total Units for the Award: 60-62
**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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
- Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
- Create a professional resume showcasing their skills in Visual Fashion Merchandising. This will increase job opportunities in the field as well as promotion for those already employed.

**Course ID** | **Title** | **Units**
---|---|---
FASH 31 | TEXTILES | 3
or | BUS 31 | TEXTILES | 3
FASH 101 | INTRODUCTION TO FASHION CAREERS | 3
or | FASH 143 | FASHION BUYING AND MERCHANDISING | 3
FASH 103 | FASHION TRENDS | 3
or | FASH 145 | INTERNSHIP | 1
FASH 147 | SPECIAL EVENTS COORDINATION AND PROMOTION | 3
or | BUS 147 | SPECIAL EVENTS COORDINATION AND PROMOTION | 3
FASH 148 | VISUAL MERCHANDISING | 3
or | BUS 148 | VISUAL MERCHANDISING | 3
FASH 150 | FASHION APPAREL AND PROFESSIONAL TECHNIQUES | 3
FASH 154 | FASHION ILLUSTRATION | 3
FASH 204 | UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION | 3
or | FASH 225 | APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP | 1
CWE 180† | CO-OP-ED FASHION | 1
Select one course from each Group | 8

**Total Units for the Certificate: 31**

**Group 1**

- BUS 136 | PRINCIPLES OF RETAILING | 3
- BUS 137 | PROFESSIONAL SELLING FUNDAMENTALS | 3
- BUS 160 | ENTREPRENEURSHIP | 3

**Group 2**

- FASH 260*« | THE DIGITAL FASHION IMAGE | 2
or | FASH 204« | UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION | 3
and
- FASH 225« | APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP | 1
- CWE 180† | CO-OP-ED FASHION | 1

**Total Units for the Major: 38**

**Group 3**

- FASH 100 | SEWING FOR FASHION DESIGN I | 3
- FASH 110* | CONTEMPORARY CLOTHING CONSTRUCTION | 3

**Optional Lab/Studio**

- FASH 212 | CONSTRUCTION LAB | 1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180.
«Take FASH 260 OR both FASH 204 and FASH 225.

**Associate in Science Degree**

Completion of the above courses and 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 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**

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.

Suggested coursework not required for the major: BUS 12, 103, 125, 136, 137, 138; FCS 115, GC 101.

**Visual Fashion Merchandising Associate in Science Degree**

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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:
• Produce a professional portfolio showcasing their skills. This portfolio will increase job opportunities in the field as well as promotion for those already employed.
• Successfully complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor. Internships give students work experience desirable in job applicants.
• Create a professional resume showcasing their skills in Visual Fashion Merchandising. This will increase job opportunities in the field as well as promotion for those already employed.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASH 31</td>
<td>TEXTILES</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 31</td>
<td>TEXTILES</td>
</tr>
<tr>
<td>FASH 101</td>
<td>INTRODUCTION TO FASHION CAREERS</td>
<td>3</td>
</tr>
<tr>
<td>FASH 143</td>
<td>FASHION BUYING AND MERCHANDISING</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 143</td>
<td>FASHION BUYING AND MERCHANDISING</td>
</tr>
<tr>
<td>FASH 144</td>
<td>FASHION TRENDS</td>
<td>3</td>
</tr>
<tr>
<td>FASH 145§</td>
<td>INTERNSHIP</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>BUS 145§</td>
<td>INTERNSHIP</td>
</tr>
<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FASHION</td>
<td>1</td>
</tr>
<tr>
<td>FASH 147</td>
<td>SPECIAL EVENTS COORDINATION AND PROMOTION</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 147</td>
<td>SPECIAL EVENTS COORDINATION AND PROMOTION</td>
</tr>
<tr>
<td>FASH 148</td>
<td>VISUAL MERCHANDISING</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 148</td>
<td>VISUAL MERCHANDISING</td>
</tr>
<tr>
<td>FASH 150</td>
<td>FASHION APPAREL AND PROFESSIONAL TECHNIQUES</td>
<td>3</td>
</tr>
<tr>
<td>FASH 154</td>
<td>FASHION ILLUSTRATION</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from each Group</td>
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<td>5</td>
</tr>
</tbody>
</table>

Total Units for the Major: 31

**Event Planner**

**Occupational Skills Award**
The Event Planner Occupational Skills Award prepares the student with skills that are necessary to become a successful planner within the industry. The focus will be on details, vision, organization and the means to pull off both big and small events. Event Planners may work on a freelance basis, for an event planning company and/or nonprofit organization and for profit corporations. Coursework covers planning and directing an event from start to finish. This will include: promotions, music, hospitality, merchandise and/or vendors, stage, rentals, culinary, lighting, selecting a venue, budget, and an internship in the field.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 160</td>
<td>ENTREPRENEURSHIP</td>
<td>3</td>
</tr>
<tr>
<td>FASH 145§</td>
<td>INTERNSHIP</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>BUS 145§</td>
<td>INTERNSHIP</td>
</tr>
<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FASHION</td>
<td>1</td>
</tr>
<tr>
<td>FASH 147</td>
<td>SPECIAL EVENTS COORDINATION AND PROMOTION</td>
<td>3</td>
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<tr>
<td>or</td>
<td>BUS 147</td>
<td>SPECIAL EVENTS COORDINATION AND PROMOTION</td>
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<tr>
<td>FASH 148</td>
<td>VISUAL MERCHANDISING</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 148</td>
<td>VISUAL MERCHANDISING</td>
</tr>
</tbody>
</table>

Total Units for the Award: 14

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180.

**Fashion Stylist**

**Occupational Skills Award**
The Fashion Stylist Occupational Skills Award prepares the student with skills that are necessary to develop knowledge of fabrics, fit and trends to create a look that a client will display to the world. The student will use art, science, and psychology of dress to enhance their subjects and project an image. Coursework covers color, line, texture, principles of design, clothing quality and care, wardrobe planning and purchasing, dress codes, body types, face shapes, hair styles, and an internship in the field.

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 160</td>
<td>ENTREPRENEURSHIP</td>
<td>3</td>
</tr>
<tr>
<td>FASH 145§</td>
<td>INTERNSHIP</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>BUS 145§</td>
<td>INTERNSHIP</td>
</tr>
<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FASHION</td>
<td>1</td>
</tr>
<tr>
<td>FASH 140</td>
<td>VISUAL MERCHANDISING</td>
<td>3</td>
</tr>
<tr>
<td>FASH 141</td>
<td>APPAREL SELECTION</td>
<td>3</td>
</tr>
<tr>
<td>FASH 147</td>
<td>SPECIAL EVENTS COORDINATION AND PROMOTION</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BUS 147</td>
<td>SPECIAL EVENTS COORDINATION AND PROMOTION</td>
</tr>
</tbody>
</table>

Total Units for the Award: 14

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180.

**Fine and Applied Arts**

**Associate in Arts Degree Program**
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**

**Cinema/ Television/ Radio**
CTVR 3, 9, 31*, 32*, 40*, 42*, 100, 101, 110, 113, 124, 125, 128.

**Dance**
DANC 9*, 51, 52*, 53*, 54, 55*, 56*, 57, 58*, 59*, 60, 61*, 62*, 64, 66

**Entertainment & Theatre**
ETT 40, 41*, 42, 45*, 100, 101, 110, 113, 124, 125, 128, 140, 191.

**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**

**Photography**
PHOT 25, 50, 51*, 55*, 152*, 156*, 160*, 190*

**Theatre Arts**
TA 1, 2*, 3*, 4*, 5*, 10, 11, 12*, 15, 16, 17, 18, 19, 20, 22, 25, 26, 30, 32*, 35, 110, 113, 290

**Total Units for the Major:** 18

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

**Associate in Arts Degree**
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**
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.

### Course Catalog

**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 60 | FUNDAMENTALS OF NUTRITION | 3
FN 205 | NUTRITION FOR CULINARY PROFESSIONALS | 3
FN 110* | FOOD PREPARATION ESSENTIALS | 3

**Course ID** | **Title** | **Units**
--- | --- | ---
FN 50 | FUNDAMENTALS OF NUTRITION | 3
FN 205 | NUTRITION FOR CULINARY PROFESSIONALS | 3
FN 110* | FOOD PREPARATION ESSENTIALS | 3

**Program Student Learning Outcomes**
Students who complete this program will be able to:

- Complete an assessment of an individual nutritional status.
- Identify and analyze current research on a foods & nutrition topic.
- Identify and demonstrate an awareness and appreciation for different cultures, traditions and food & nutrition habits impact on nutrition.
- Demonstrate competence in food production.

**Foods Associate in Science Degree 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.

**Program Student Learning Outcomes**
Students who complete this program will be able to:

- Complete an assessment of an individual nutritional status.
- Identify and analyze current research on a foods & nutrition topic.
- Identify and demonstrate an awareness and appreciation for different cultures, traditions and food & nutrition habits impact on nutrition.
- Demonstrate competence in food production.
FN 120* CONTEMPORARY MEALS 3
FN 171 SANITATION AND SAFETY 2
or
FN 210 SERVSAFE IN FOOD PRODUCTION 1
FN 232* TECHNIQUES OF HEALTHY COOKING 2
FN 240* CULINARY PRINCIPLES I 3
FN 244* BAKING FUNDAMENTALS I 3
FN 246 PANTRY 3
FN 261†§ INTERNSHIP 1
and
CWE 180 † CO-OP-ED FOODS AND NUTRITION 2
FN 275 FOOD AND BEVERAGE OPERATIONS 3
Select from Specialty Courses

Total Units for the Major: 33-35

Specialty Courses:
FN 142* CLASSICAL FRENCH CUISINE 2
FN 173* CATERING AND BANQUETS 3
FN 220* FRENCH BISTRO CUISINE 2
FN 222* CHINESE CUISINE 2
FN 223* ASIAN CUISINE 2
FN 226* MEXICAN CUISINE 2
FN 227* MEDITERRANEAN CUISINE 2
FN 228* ITALIAN CUISINE 2
FN 236* AMERICAN REGIONAL CUISINE 2
FN 241* CULINARY PRINCIPLES II 3
FN 245* BAKING FUNDAMENTALS II 2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180 during the last semester of the program.

Associate in Science Degree
Completion of the courses 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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
Refer to the Graduation Requirements or to the Intersegmental General Education Transfer Curriculum (IGETC) (37-39 units).

Certification Requirements of the 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 in Arts Degree Program
The General Studies Associate degree provides an opportunity for students to earn a 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.

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) (37-39 units).

Program Student Learning Outcomes
Students who complete this program will be able to:
• Explain the values of a culture as expressed through its art or language.
• Demonstrate effective expository and persuasive writing skills.
• Develop a reasoned solution to a problem.
• Evaluate new and accepted ideas about the natural universe using testable methodology.
• Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.
•

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 judgments.

ARAB 1*, 2*, 21*
ARCH 12
ART 4, 20, 21*, 22*, 23*, 24*, 25, 26, 28, 29*
CBI 1*, 2*, 21*
CTVR 3, 9*
DANC 64
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, 22*, 25*
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*

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
The curriculum in the Geography program is designed to provide the transfer student the opportunity to achieve an Associate in Arts degree. While a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please 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.

Geography

Associate in Arts Degree in Geography for Transfer

The curriculum in the Geography Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Geography for Transfer by providing the necessary breadth in the field, an introduction to the methods used, and the ability to complete both major preparatory coursework along with courses required for general education. Students who complete the Associate in Arts Degree in Geography for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate map literacy.
- Identify and describe a location (place) based on characteristics that distinguish them from other places on earth.
- Identify and describe movement of geographic phenomena.

Course ID | Title | Units
--- | --- | ---
GEOG 1 | PHYSICAL GEOGRAPHY | 3
GEOG 3 | WORLD REGIONAL GEOGRAPHY | 3
GEOG 38 | CALIFORNIA GEOGRAPHY | 3
GEOG 110 | INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) | 2
GEOG 102 | GEOGRAPHY FIELD STUDIES | 1
GEOG 106 | FIELD STUDIES OF DESERT REGIONS | 1
GEOG 107 | FIELD STUDIES OF MOUNTAIN AREAS | 1
GEOG 108 | FIELD STUDIES OF WESTERN NORTH AMERICA | 2

Total Units for the Major: 18-25

*Course must be taken if not taken in the required core.

Required Courses (6-7 units)

- GEOG 1 or after completing GEOG1
- GEOG 1L* (GEOG 1L must be taken concurrently with GEOG 1 or after completing GEOG1)
- GEOG 101 INTRODUCTION TO PHYSICAL GEOGRAPHY
- GEOG 1L*± PHYSICAL GEOGRAPHY LABORATORY (GEOG 1L must be taken concurrently with GEOG 1 or after completing GEOG1)
- GEOG 2 CULTURAL GEOGRAPHY
- GEOG 3 WORLD REGIONAL GEOGRAPHY
- GEOG 106 FIELD STUDIES OF DESERT REGIONS
- GEOG 107 FIELD STUDIES OF MOUNTAIN AREAS
- GEOG 108 FIELD STUDIES OF WESTERN NORTH AMERICA

Total Units for the Major: 18

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

Graduation Requirements

- Associate in Arts Degree Program

required for general education. Students who complete the Associate in Arts Degree in Geography for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to 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.

Geography

Associate in Arts Degree in Geography for Transfer

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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate map literacy.
- Identify and describe a location (place) based on characteristics that distinguish them from other places on earth.

Course ID | Title | Units
--- | --- | ---
GEOG 1 | PHYSICAL GEOGRAPHY | 3
GEOG 3 | WORLD REGIONAL GEOGRAPHY | 3
GEOG 38 | CALIFORNIA GEOGRAPHY | 3
GEOG 110 | INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) | 2
GEOG 102 | GEOGRAPHY FIELD STUDIES | 1
GEOG 106 | FIELD STUDIES OF DESERT REGIONS | 1
GEOG 107 | FIELD STUDIES OF MOUNTAIN AREAS | 1
GEOG 108 | FIELD STUDIES OF WESTERN NORTH AMERICA | 2

Total Units for the Major: 18-25

*Course must be taken if not taken in the required core.

Required Courses (6-7 units)

- GEOG 1 or after completing GEOG1
- GEOG 1L* (GEOG 1L must be taken concurrently with GEOG 1 or after completing GEOG1)
- GEOG 2 CULTURAL GEOGRAPHY
- GEOG 3 WORLD REGIONAL GEOGRAPHY
- GEOG 106 FIELD STUDIES OF DESERT REGIONS
- GEOG 107 FIELD STUDIES OF MOUNTAIN AREAS
- GEOG 108 FIELD STUDIES OF WESTERN NORTH AMERICA

Total Units for the Major: 18

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

Graduation Requirements

- Associate in Arts Degree Program

required for general education. Students who complete the Associate in Arts Degree in Geography for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to 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.

Geography

Associate in Arts Degree in Geography for Transfer

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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate map literacy.
- Identify and describe a location (place) based on characteristics that distinguish them from other places on earth.

Course ID | Title | Units
--- | --- | ---
GEOG 1 | PHYSICAL GEOGRAPHY | 3
GEOG 3 | WORLD REGIONAL GEOGRAPHY | 3
GEOG 38 | CALIFORNIA GEOGRAPHY | 3
GEOG 110 | INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) | 2
GEOG 102 | GEOGRAPHY FIELD STUDIES | 1
GEOG 106 | FIELD STUDIES OF DESERT REGIONS | 1
GEOG 107 | FIELD STUDIES OF MOUNTAIN AREAS | 1
GEOG 108 | FIELD STUDIES OF WESTERN NORTH AMERICA | 2

Total Units for the Major: 18-25

*Course must be taken if not taken in the required core.

Required Courses (6-7 units)

- GEOG 1 or after completing GEOG1
- GEOG 1L* (GEOG 1L must be taken concurrently with GEOG 1 or after completing GEOG1)
- GEOG 2 CULTURAL GEOGRAPHY
- GEOG 3 WORLD REGIONAL GEOGRAPHY
- GEOG 106 FIELD STUDIES OF DESERT REGIONS
- GEOG 107 FIELD STUDIES OF MOUNTAIN AREAS
- GEOG 108 FIELD STUDIES OF WESTERN NORTH AMERICA

Total Units for the Major: 18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
I identify and describe movement of geographic phenomena.

Course ID   Title                        Units
GEOG 1     PHYSICAL GEOGRAPHY           3
GEOG 1L*   PHYSICAL GEOGRAPHY LABORATORY 1
GEOG 2     CULTURAL GEOGRAPHY           3
GEOG 3     WORLD REGIONAL GEOGRAPHY     3
Select from Restricted Electives         9-13
Total Units for the Major: 19-23

Restricted Electives
ANTH 1, 2; GEOG 38; GEOL 1; HIST 4, 5, 32; PS 11/ECON 11, PS 14.
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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 in Arts Degree in Geology for Transfer

The curriculum in the Geology program is designed to provide the transfer student the opportunity to achieve an Associate in Science in Geology for Transfer degree by providing the necessary background in quantitative reasoning as well as physical and earth sciences. This background should provide students with the tools to successfully complete a bachelor's degree in Earth Science, Geology, or Geophysics. Students who complete the Associate in Science Degree in Geology for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Recognize and explain the role of fundamental geologic principles, such as plate tectonic theory and deep time, in the interpretation of observed geologic phenomena.
• Research, evaluate, and cite scientific information in order to formulate coherent summaries of earth processes.
• Define the scientific method and apply it to observed geologic phenomena.
• Interpret geologic processes using underlying chemical properties and physical laws.

Course ID   Title                        Units
CHEM 1A*   GENERAL CHEMISTRY           5
GEO 1      INTRODUCTION TO PHYSICAL GEOLOGY 4
or
GEO 20     INTRODUCTION TO EARTH SCIENCE 4
MATH 2     PRE-CALCULUS (required of students unprepared for MATH 3A*) 5

First Year — Fall 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     5
or
PHYS 4A*   GENERAL PHYSICS             5

Spring Semester
PHYS 2B*   INTRODUCTION TO PHYSICS     5
or
PHYS 4B*   GENERAL PHYSICS             5

Total Units for the Major: 43-48
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: GEOL 3, GEOL 4, GEOL 7, GEOL 23; DR 100 (if mechanical drafting not taken in high school).

Gerontology
Certificate Program
A multidisciplinary approach to the study of aging, the aging population, the aging process, and society's response to the
increasing population of older individuals. Biological, sociological, and psychological aspects of aging are explored. The coursework provides students with information as well as training to work in services and agencies that interact and assist older individuals.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Define and explain the key concepts associated with the study of aging and the study of Gerontology.
- Identify and explain the physical, social, familial, and community support networks for aging individuals.
- Explain the changes in the roles and activities of the elderly historically and in contemporary society.
- Compare and contrast the three main sociological theories as they apply to the study of Gerontology.
- Apply social theories to analyze current and historical topics associated with the study of aging and gerontology.
- Evaluate current social research on the study of aging and gerontology.
- Describe the role that culture plays in aging.
- Explain how various social locations such as class, race, gender, age, and sexuality are vital to the study of aging and gerontology and may result in social inequality.
- Identify specific social problems aging adults experience and explain their cause-effect patterns.
- Explain the demographics trends of aging.
- Identify the life cycle transitions.
- Explain the role that politics, voting, and activism have on the older population.
- Identify and evaluate community support services and agencies focused on the aging community.
- Explain and analyze the various social policies that affect the elderly.
- Explain end-of-life issues and decisions, the current death system, and the challenges of the death system.
- Explain and analyze issues of bereavement, grief, and mourning.
- Research and critically analyze specific topics on death and dying.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 125*</td>
<td>PSYCHOLOGY OF AGING</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125*</td>
<td>SOCIOLOGY OF AGING</td>
<td>3</td>
</tr>
<tr>
<td>SOC 126*</td>
<td>DEATH AND DYING</td>
<td>3</td>
</tr>
<tr>
<td>SOC 180</td>
<td>INTRODUCTION TO GERONTOLOGY</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 18-21

Restricted Electives

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2</td>
<td>CULTURAL ANTHROPOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>CCS 2</td>
<td>MULTICULTURAL IDENTITIES IN THE UNITED STATES</td>
<td>3</td>
</tr>
<tr>
<td>FN 50</td>
<td>FUNDAMENTALS OF NUTRITION</td>
<td>3</td>
</tr>
<tr>
<td>FN 64</td>
<td>NUTRITION ISSUES AND CONTROVERSIES</td>
<td>3</td>
</tr>
<tr>
<td>FN 161*</td>
<td>NUTRITION FOR HEALTH OCCUPATIONS</td>
<td>2</td>
</tr>
<tr>
<td>FN 171</td>
<td>SANITATION AND SAFETY</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 3</td>
<td>WORLD REGIONAL GEOGRAPHY</td>
<td>3</td>
</tr>
<tr>
<td>HIST 20</td>
<td>ETHNIC CULTURES OF THE UNITED STATES</td>
<td>3</td>
</tr>
<tr>
<td>*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.</td>
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</tr>
</tbody>
</table>

Suggested coursework not required for the major: HLTH 2; SE 102

Graphics

Computer Graphics Certificate Program

This program is designed to prepare students for employment in the computer graphics fields. This program relies heavily on a 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 in the computer graphics field are: computer graphics artist, prepress technician, computer animator and multimedia producer.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Apply fundamental graphic design and production skills
- Select and use appropriate graphic design and production software
- Demonstrate skills typically found in the graphic design and production field

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GD 144</td>
<td>TYPOGRAPHY</td>
<td>3</td>
</tr>
<tr>
<td>GD 147</td>
<td>INTRODUCTION TO COMPUTER GRAPHICS</td>
<td>3</td>
</tr>
<tr>
<td>GD 148*</td>
<td>DIGITAL GRAPHIC DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>GD 149</td>
<td>DIGITAL ILLUSTRATION</td>
<td>3</td>
</tr>
<tr>
<td>GD 150*</td>
<td>DIGITAL ANIMATION</td>
<td>3</td>
</tr>
<tr>
<td>GD 151</td>
<td>DIGITAL LAYOUT AND DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>GD 154*</td>
<td>DIGITAL PRE-PRESS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 21

Computer Graphics Associate in Science Degree

This program is designed to prepare students for employment in the computer graphics fields. This program relies heavily on a 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 in the computer graphics field are: computer graphics artist, prepress technician, computer animator and multimedia producer.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Apply fundamental graphic design and production skills
- Select and use appropriate graphic design and production software
- Demonstrate skills typically found in the graphic design and production field

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>SO 2</td>
<td>SOCIAL PROBLEMS</td>
<td>3</td>
</tr>
<tr>
<td>SO 5</td>
<td>SOCIAL STRATIFICATION</td>
<td>3</td>
</tr>
<tr>
<td>SO 20</td>
<td>ETHNIC CULTURES OF THE UNITED STATES</td>
<td>3</td>
</tr>
</tbody>
</table>
### Graphic Communications Certificate Program

Graphic Communications Certificate Program includes electronic and traditional printing, computer graphics, screen printing, letterpress and related areas. The discipline focuses on the creation, production, and reproduction in printed and digital form. Students are encouraged to adhere to electives noted for a rounded educational experience.

#### Program Student Learning Outcomes

- Use fundamental traditional and digital pre-press and reproduction skills for commercial print production
- Select and use appropriate pre-press and production software and hardware
- Demonstrate skills typically found in the commercial pre-press and print production field

#### Course List

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GD 144</td>
<td>TYPOGRAPHY</td>
<td>3</td>
</tr>
<tr>
<td>GD 147</td>
<td>INTRODUCTION TO COMPUTER GRAPHICS</td>
<td>3</td>
</tr>
<tr>
<td>GD 148*</td>
<td>DIGITAL GRAPHIC DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>GD 149</td>
<td>DIGITAL ILLUSTRATION</td>
<td>3</td>
</tr>
<tr>
<td>GD 150*</td>
<td>DIGITAL ANIMATION</td>
<td>3</td>
</tr>
<tr>
<td>GD 151</td>
<td>DIGITAL LAYOUT AND DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>GD 154*</td>
<td>DIGITAL PRE-PRESS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Major: 21

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

### Associate in Science Degree

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

#### General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: GC 101, ART 140/GD 140, GD 141, GD 145.

#### Graphic Design Associate in Science Degree Program

This program option prepares students for careers typically found in the graphic design field, such as art director, graphic designer, production artist, package designer, or product designer. The study encompasses all phases of the design processes from origination of the idea (design, layout, and typography) through reproduction, finishing and distribution. Students are encouraged to adhere to electives noted for a rounded educational experience.

#### Program Student Learning Outcomes

- Use fundamental design skills
- Select and use appropriate graphic design software
- Demonstrate skills typically found in the graphic design field

#### Course List

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GC 63</td>
<td>INTRODUCTION TO SCREEN PRINTING</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ART 63 INTRODUCTION TO SCREEN PRINTING</td>
<td>3</td>
</tr>
<tr>
<td>GC 101</td>
<td>INTRODUCTION TO GRAPHIC COMMUNICATION</td>
<td>3</td>
</tr>
<tr>
<td>GC 106*</td>
<td>ADVANCED SCREEN PRINTING</td>
<td>3</td>
</tr>
<tr>
<td>GC 195*</td>
<td>GRAPHICS STUDIO</td>
<td>3</td>
</tr>
<tr>
<td>GC 210</td>
<td>LETTERPRESS</td>
<td>3</td>
</tr>
<tr>
<td>GD 144</td>
<td>TYPOGRAPHY</td>
<td>3</td>
</tr>
<tr>
<td>GD 147</td>
<td>INTRODUCTION TO COMPUTER GRAPHICS</td>
<td>3</td>
</tr>
<tr>
<td>GD 151</td>
<td>DIGITAL LAYOUT AND DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>GD 154*</td>
<td>DIGITAL PRE-PRESS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Major: 27

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
The Illustration/Animation Certificate 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, T-shirt and decal art. Students are encouraged to adhere to electives noted for a rounded educational experience.

**Program Student Learning Outcomes**

- Use fundamental illustration and animation skills
- Select and use appropriate illustration and animation software and hardware
- Demonstrate skills typically found in the illustration and animation field

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

**Biomedical Illustration Certificate Program**

Biomedical illustration is a unique discipline combining design, science, art, communication, and media technology. Biomedical illustrators work in a variety of media and industries to create visuals that transform complex information and data into images that explain, inform, and record scientific research and discoveries. In this program, students will combine illustration, drawing, biology, and anatomy studies to gain skills and apply them in the Biomedical illustration field. The program combines classroom and laboratory instruction to provide students with a well-rounded preparation in the Biomedical and life science illustration fields. The goal of the program is to train and prepare students for a career in the field as illustrators in various medical, science, and technical presentation areas. Among the applications of target skills are textbooks and journals, web, television, patient education, museums, veterinary, dental, trade shows, pharmaceutical advertising, and medical illustration used by attorneys and law enforcement to clarify complex medical information for judges and juries. Students completing this certificate will have foundational skills to prepare them for entry-level employment in this field.

**Course ID** | **Title** | **Units**
---|---|---
ART 80 | DRAWING I | 3
GD 141 | GRAPHIC RENDERING TECHNIQUES | 3
or
ART 141 | GRAPHIC RENDERING TECHNIQUES | 3
GD 144 | TYPOGRAPHY | 3
GD 145 | GRAPHIC ILLUSTRATION | 3
or
ART 145 | GRAPHIC ILLUSTRATION | 3
GD 147 | INTRODUCTION TO COMPUTER GRAPHICS | 3
GD 149 | DIGITAL ILLUSTRATION | 3
GD 150* | DIGITAL ANIMATION | 3
GD 155 | History of Animation | 3
GD 210 | MOTION GRAPHICS | 3

**Total Units for the Certificate**: 27

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

**Illustration/Animation Associate in Arts Degree Program**

The Illustration/Animation Certificate 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, T-shirt and decal art. Students are encouraged to adhere to electives noted for a rounded educational experience.

**Program Student Learning Outcomes**

- Use fundamental illustration and animation skills
- Select and use appropriate illustration and animation software and hardware

**Course ID** | **Title** | **Units**
---|---|---
GD 149 | DIGITAL ILLUSTRATION | 3
ART 80 | DRAWING I | 3

**Total Units for the Major**: 27

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

**Associate in Science Degree Program**

The Health Information Technician (H.I.T.) program grants a certificate upon the successful completion of the 4-semester or 2 year coursework. The HIT associate degree program comprises of the 4-semester coursework plus the general education courses needed to get the associate’s degree. Since the associate degree in HIT is a high unit degree (more than 60 units), it typically takes longer than 2 years to complete. The HIT certificate and degree prepare the student for employment as a health information professional with the knowledge and skills to accurately code diagnoses and procedures for healthcare services provided to patients, and to collect, maintain, and analyze clinical data in electronic health records that physicians, nurses, and other healthcare staff rely on to deliver quality healthcare. Provide training through didactic instruction and directed practice. Facilities employing health information technology professionals include hospitals, ambulatory care centers, physician offices, long-term care facilities, dialysis centers, public health agencies, pharmaceutical companies, medical supply companies, rehabilitation centers, managed care organizations, behavioral and mental health facilities, law firms, and insurance firms.

Students are required to hold a valid basic life support CPR card for healthcare providers and carry professional liability insurance prior to commencing their directed practice.

**Occupations/ Fields that the program will prepare the student to enter:**
- Revenue Cycle Management/Billing/Clinical Coding
- Health Information Management
- Practice Management
- Patient care registrar
- Health Information Education
- Insurance Claims specialist
- Patient Portal education/liaison
- Medical office administration
- Quality Improvement analyst
- Help Desk
- Release of Information
- Medical Transcription

**Competencies:**
- Patient Registration
- Revenue Cycle Management/Billing/Clinical Coding
- Quality/Performance Improvement
- Transcription
- Release of Information
- Revenue Cycle Management/Billing/Clinical Coding
- Deficiency Analysis (health information)
- Physician credentialing and privileging
- Privacy and Security of health information
- Healthcare statistics, reporting, and registries

**Program Student Learning Outcomes**

Students who complete this program will be able to:
- Collect, use, analyze, validate, store, and retrieve health care data.
- Manage related data, personnel management, and release of information.
- Demonstrate skill in clinical coding - converting diagnoses and procedures to numeric codes.
- Demonstrate skills in quality assessment, financial management, and computer science.
- Apply knowledge through clinical experiences in various professional practice health care facilities.
- Demonstrate the knowledge and skills needed to successfully pass entry level HIM certification examinations and the Registered Health Information Technician examination. (RHIT)

A minimum grade of “C” in all courses is required to receive the certificate.

**Course ID** | **Title** | **Units**
--- | --- | ---
HIT 200 | HEALTH INFORMATION SCIENCE | 3
BIO 113 | HUMAN ANATOMY AND PHYSIOLOGY | 4
HIT 233 | LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION | 3
HIT 203 | ALTERNATIVE HEALTHCARE DELIVERY SYSTEMS | 2
HIT 207 | INFORMATION TECHNOLOGY/EHR IN HEALTHCARE | 3
HSC 244* | DISEASE PROCESSES FOR THE HEALTH SCIENCES | 3
HIT 211* | ICD-10-CM | 3
HIT 212* | REPORTING HEALTHCARE DATA | 2
HIT 209* | MANAGEMENT OF RESOURCES IN HEALTHCARE | 3
HIT 204* | PERFORMANCE IMPROVEMENT IN HEALTHCARE | 3
HIT 215* | CPT AND AMBULATORY CARE CODING | 3

**Total Units for the Major: 46**

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

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**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, package designer, or product designer. The study encompasses all phases of the design processes from origination of the idea (design, layout, and typography) through reproduction, finishing and distribution. Students are encouraged to adhere to electives noted for a rounded educational experience.

**Program Student Learning Outcomes**

Students who complete this program will be able to:
- Use fundamental design skills
- Select and use appropriate graphic design software
- Demonstrate skills typically found in the graphic design field

**Course ID** | **Title** | **Units**
--- | --- | ---
GD 140 | BEGINNING GRAPHIC DESIGN | 3
or ART 140 | BEGINNING GRAPHIC DESIGN | 3
or GD 142 | PACKAGE DESIGN | 3
or ART 142 | PACKAGE DESIGN | 3
or GD 144 | TYPOGRAPHY | 3
or GD 145 | GRAPHIC ILLUSTRATION | 3
or ART 145 | GRAPHIC ILLUSTRATION | 3
or GD 147 | INTRODUCTION TO COMPUTER GRAPHICS | 3
or GD 149 | DIGITAL ILLUSTRATION | 3
or GD 154* | DIGITAL PRE-PRESS | 3
or GD 200 | PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS | 3
or GD 240 | INTERMEDIATE GRAPHIC DESIGN | 3
or ART 240* | INTERMEDIATE GRAPHIC DESIGN | 3
or CWE 180 | CO-OP-ED GRAPHICS | 1

**Total Units for the Certificate: 28**

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

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**Course ID** | **Title** | **Units**
--- | --- | ---
BIO 20 | INTRODUCTION TO BIOLOGY | 4
GD 200 | PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS | 3
GD 150* | DIGITAL ANIMATION | 3
ART 85* | DRAWING FROM THE LIVE MODEL I | 3
BIO 113 | HUMAN ANATOMY AND PHYSIOLOGY | 4
GD 199* | DIGITAL ILLUSTRATION II | 3
GD 249* | BIOMEDICAL ILLUSTRATION | 3

**Total Units for the Certificate: 29**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Associate in Science Degree
Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Accreditation
The Health Information Technology Program (HIT) is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). To contact CAHIIM:
233 N. Michigan Ave 21st Floor
Chicago, IL 60601-5800
Fax (312) 233-1948
info@cahiim.org

Health Sciences Associate in Arts Degree Program
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 (37-39 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Recognize and define the terminology of various health sciences.
- Differentiate between various health science jobs and job requirements.
- Demonstrate scientific and critical thinking skills related to the field of health science.

Select 18 units from the following related disciplines
- BIO 11*, 12*, 15*, 112*, 113
- CHEM 1A*, 108
- EMT 207* & 207C*, 210*, 219*
- HIT 200, 204*, 207*, 209*, 216*, 219*, 221*
- HLTH 1, 2, 3
- PHLB 240*
- PM 220*, 230*, 240*

Total Units for the Major: 18

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

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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 in Arts Degree in History for Transfer
The curriculum in the History program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in History for Transfer degree by providing the necessary breadth in the field and an introduction to the methods used. Students who complete the Associate in Arts Degree in History for Transfer receive prior admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements

Program Student Learning Outcomes
Students who complete this program will be able to:
- Discuss the diversity of the human experience as influenced by geographical location, race, ethnicity, cultural traditions, gender and class
- Analyze historical processes that shape individuals and communities, drawing on detailed knowledge about the history of the area under study
- Apply critical thinking skills to examine the varieties of experience found in the historical record of the United States, exploring diversity as a critical component of history
- Distinguish between primary and secondary sources, and understand how each are used to make historical arguments
- Assess, use, and synthesize different kinds of evidence from a variety of historical sources to make a coherent argument about the past
- Effectively conduct research and write a coherent historical essay or research paper that articulates a clear argument, effectively interprets multiple forms of evidence, identifies arguments in secondary historical texts, and uses appropriate citations

Course ID Title Units
HIST 16 HISTORY OF THE UNITED STATES TO 1876 3
HIST 17 HISTORY OF THE UNITED STATES SINCE 1876 3

Group A: (6 Units)
HIST 4 WORLD HISTORY TO 1750 3
HIST 5 WORLD HISTORY FROM 1750 3

Group B: Select one course from each area (6 Units)
Area 1:
HIST 70 HISTORY OF ASIA TO 1800 3
HIST 71 HISTORY OF ASIA SINCE 1800 3
HIST 72 HISTORY OF CHINA 3
HIST 74 HISTORY OF THE MIDDLE EAST TO 1800 3
HIST 80 INTRODUCTION TO CONTEMPORARY AFIRCA 3

www.saddleback.edu 119
HIST 21  WOMEN IN UNITED STATES HISTORY - A MULTICULTURAL PERSPECTIVE  3
HIST 33  THE POLITICAL/SOCIAL HISTORY OF THE CHI CANAS/OS  3
HIST 81  AFRICAN AMERICAN HISTORY  3

Area 2:
HIST 62  EUROPEAN HISTORY TO 1650  3
HIST 63  EUROPEAN HISTORY SINCE 1650  3
HIST 75  INTRODUCTION TO THE CONTEMPORARY MIDDLE EAST  3
HIST 30  HISTORY OF MEXICO  3

Total Units for the Major: 18

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

History

Associate in Arts 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Discuss the diversity of the human experience as influenced by geographical location, race, ethnicity, cultural traditions, gender and class
- Analyze historical processes that shape individuals and communities, drawing on detailed knowledge about the history of the area under study
- Apply critical thinking skills to examine the varieties of experience found in the historical record of the United States, exploring diversity as a critical component of history
- Distinguish between primary and secondary sources, and understand how each are used to make historical arguments
- Assess, use, and synthesize different kinds of evidence from a variety of historical sources to make a coherent argument about the past
- Effectively conduct research and write a coherent historical essay or research paper that articulates a clear argument, effectively interprets multiple forms of evidence, identifies arguments in secondary historical texts, and uses appropriate citations

Course ID  Title                        Units
HIST 4   WORLD HISTORY TO 1750          3
HIST 5   WORLD HISTORY SINCE 1750       3
HIST 16  HISTORY OF THE UNITED STATES TO 1876  3
HIST 17  HISTORY OF THE UNITED STATES SINCE 1876  3

Total Units for the Major: 18

Restricted Electives
ECON 2*, 20; HIST 7, 8, 11, 12, 15, 19, 20/SOC 20, HIST 21, 30, 32, 33, 40, 41, 61, 62, 63, 70, 71, 72, 75, 80, 135; PS 4, 11, 12, 14, 80.

Associate in Science Degree Program
The Horticulture program is soundly based on horticultural science and 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Grow and maintain ornamental plant materials.
- Identify local plant materials, including herbaceous and trees, shrubs, and California natives.
- Identify plants contributing to local ecologies and habitats.

Course ID  Title                        Units
HORT 10  PLANT MATERIALS-Herbaceous Plants  3
HORT 11  PLANT MATERIALS-Trees and Shrubs  3
HORT 20  INTRODUCTION TO Horticultural Science  4
HORT 112 PLANT PROPAGATION  3
HORT 113 SOILS AND FERTILIZERS  3
HORT 120 INTEGRATED PEST MANAGEMENT  4

Total Units for the Certificate: 24-26

*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.

Suggested coursework not required for the major: BUS 1, BUS 120, BUS 137; CIM 1; HORT 208, 209*; SPAN 1*.

Horticulture/Landscape Design

Horticulture Certificate Program

The Horticulture program is soundly based on horticultural science and 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Grow and maintain ornamental plant materials.
- Identify local plant materials, including herbaceous and trees, shrubs, and California natives.
- Identify plants contributing to local ecologies and habitats.

Course ID  Title                        Units
HORT 10  PLANT MATERIALS-Herbaceous Plants  3
HORT 11  PLANT MATERIALS-Trees and Shrubs  3
HORT 20  INTRODUCTION TO Horticultural Science  4
HORT 112 PLANT PROPAGATION  3
HORT 113 SOILS AND FERTILIZERS  3
HORT 120 INTEGRATED PEST MANAGEMENT  4

Program Student Learning Outcomes
Students who complete this program will be able to:
- Grow and maintain ornamental plant materials.
- Identify local plant materials, including herbaceous and trees, shrubs, and California natives.
- Identify plants contributing to local ecologies and habitats.

Course ID  Title                        Units
HORT 10  PLANT MATERIALS-Herbaceous Plants  3
HORT 11  PLANT MATERIALS-Trees and Shrubs  3
HORT 20  INTRODUCTION TO Horticultural Science  4
HORT 112 PLANT PROPAGATION  3
HORT 113 SOILS AND FERTILIZERS  3
HORT 120 INTEGRATED PEST MANAGEMENT  4

Suggested coursework not required for the major: BUS 1, BUS 120, BUS 137; CIM 1; HORT 208, 209*; SPAN 1*.
Associate in Science Degree
Completion of the courses 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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: BUS 1, BUS 120, BUS 137; HORT 208, 209; SPAN 1.

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.

Program Student Learning Outcomes
Students who complete this program will be able to:

• Demonstrate fundamental skills in landscape design elements, process and techniques.
• Apply their understanding of sustainable horticultural aspects to the development of landscape design to promote green living environments.
• Demonstrate basic landscape construction and maintenance skills.
• Use a variety of computer applications relevant to landscape design, construction, and ornamental horticulture.
• Demonstrate the skills necessary for employment as a landscape designer, landscape construction and maintenance professionals, or related field.

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 CAD-AUTOCAD FUNDAMENTALS | 3
HORT 109 | INTRODUCTION TO PLANTING DESIGN | 3
HORT 116 | IRRIGATION DESIGN FUNDAMENTALS | 3
HORT 130 | HARDSCAPE AND CONSTRUCTION MATERIALS FUNDAMENTALS | 1.5
Select one course from each Group | 2.5-7
Total Units for the Certificate: 21.5-26.5

Group I:

HORT 20 | INTRODUCTION TO HORTICULTURAL SCIENCE | 4
HORT 113 | SOILS AND FERTILIZERS | 3
HORT 138 | THE SUSTAINABLE LANDSCAPE | 3
HORT 140 | LANDSCAPE MANAGEMENT AND CONSTRUCTION | 3
HORT 141* | HARDSCAPE AND CONSTRUCTION DETAILS WITH CAD | 2

HORT 134 | PLANTING DESIGN WITH NATIVE PLANTS | 3
HORT 166 | ORNAMENTAL NATIVE PLANTS IDENTIFICATION | 3
CWE 180* | COOPERATIVE WORK EXPERIENCE: HORTICULTURE AND LANDSCAPE | 1

Group II:

HORT 115 | HISTORY OF LANDSCAPE DESIGN - ANCIENT THROUGH 19TH CENTURY | 3
HORT 201* | PROFESSIONAL PRACTICES IN DESIGN PROFESSIONS | 3
HORT 216* | IRRIGATION PLANS AND DETAILS WITH CAD | 3
HORT 139 | CONTEMPORARY LANDSCAPE DESIGN TRENDS | 3
HORT 142 | INTRODUCTION TO DESIGN TECHNOLOGY | 1
HORT 143* | LANDSCAPE CAD MANAGEMENT WITH DESIGN PROJECTS | 3
HORT 144 | LICENSURE FOR THE LANDSCAPE CONTRACTOR | 1.5

*Landscape Design Certificate Program.

Total Units for the Major: 23.5-28

Additional coursework for the Associate in Science Degree:

Course ID | Title | Units
--- | --- | ---
CWE 180† | COOPERATIVE WORK EXPERIENCE: HORTICULTURE | 1
HORT 20 | INTRODUCTION TO HORTICULTURE | 4
HORT 113 | SOILS AND FERTILIZERS | 3
HORT 166 | ORNAMENTAL NATIVE PLANTS IDENTIFICATION | 3

Group II:

HORT 115 | HISTORY OF LANDSCAPE DESIGN | 3
The Plant Identification Occupational Skills Award 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.

### General Landscape Design Occupational Skills Award

The General Landscape Design OSA encourages students to acquire 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 as well as residential landscape design industries.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 7</td>
<td>INTRODUCTION TO LANDSCAPE DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>HORT 109</td>
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<tr>
<td>HORT 130</td>
<td>HARDSCAPE AND CONSTRUCTION MATERIALS FUNDAMENTALS</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Total Units for the Award: 7.5**

### Plant Identification Occupational Skills Award

The Plant Identification Occupational Skills Award 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.

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<td>HORT 10</td>
<td>PLANT MATERIALS-HERBACEOUS PLANTS</td>
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<td>PLANT MATERIALS-TREES AND SHRUBS</td>
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</tr>
<tr>
<td>HORT 166</td>
<td>ORNAMENTAL NATIVE PLANTS IDENTIFICATION</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units for the Award: 9**

### Associate in Arts 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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:
- Discuss diverse human experiences
- Identify influences on human development
- Locate and analyze significant works focused on the study of human development

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 2</td>
<td>CULTURAL ANTHROPOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>MATH 10*</td>
<td>INTRODUCTION TO STATISTICS</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>INTRODUCTION TO PSYCHOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 7*</td>
<td>DEVELOPMENTAL PSYCHOLOGY - CHILDHOOD THROUGH ADOLESCENCE</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>SOC 15*</td>
<td>SOCIALIZATION OF THE CHILD</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units for the Major: 18**

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

### Human Services

The Human Services department offers the following programs of study for people who want to work with people. The curricula 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, mental health, and other helping professions for students planning advanced degrees in these fields. Coursework includes participation in internships and Cooperative Work Experiences at various facilities.

Saddleback College is an academic member of the International Association of Eating Disorders Professionals (IAEDP). Saddleback College does not offer a certificate for the Eating Disorders Program, however, the course is certified by IAEDP.

The Human Services department offers the four programs listed below.

### Human Development

<table>
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<tr>
<th>Course ID</th>
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<th>Units</th>
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<tbody>
<tr>
<td>HORT 113</td>
<td>SOILS AND FERTILIZERS</td>
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</table>

**Associate in Arts Degree Program**

The Human Services department offers the four programs listed below.

### 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.
The completion of the Core Courses is required for eligibility of enrollment in HS 110 and is required for the completion of the Certificate Programs. It is recommended that these courses be taken as early as possible.

A minimum grade of "C" in all courses is required to receive the certificate.

Program Student Learning Outcomes
Students who complete this program will be able to
- Demonstrate multiple approaches in their work with the alcohol and drug abuse population.
- Apply various communication and collaborative techniques to use with families and employers of chemically dependent individuals.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

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<tr>
<th>Course ID</th>
<th>Title</th>
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<tbody>
<tr>
<td>HS 100</td>
<td>HUMAN SERVICES IN A CHANGING SOCIETY</td>
<td>3</td>
</tr>
<tr>
<td>HS 120</td>
<td>HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT</td>
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<td>HS 285</td>
<td>ETHICAL ISSUES AND CLIENT'S RIGHTS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Core Units for the Certificate: 15

Program Student Learning Outcomes
Students who complete this program will be able to
- Demonstrate multiple approaches in their work with the alcohol and drug abuse population.
- Apply various communication and collaborative techniques to use with families and employers of chemically dependent individuals.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

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Total Core Units for the Major: 15

Required Courses:
- HS 110* FIELD INSTRUCTION AND SEMINAR I 3.5
- HS 150* FIELD INSTRUCTION AND SEMINAR II 3.5
- 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 176* CO-OCCURRING DISORDERS 3

Total Units for the Certificate: 37

Restricted Electives:
- HS 128 COMMUNITY-BASED CORRECTIONS 3
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES 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 ADOLESCENTS 3
- HS 220 BENEFITS AND ENTITLEMENT 3

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

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

General Education Requirements for Associate Degrees
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.

Community-Based Corrections Certificate Program
The program in Community-Based Corrections provides the student with an introduction to the Human Services behavioral core and skills with a specialized area of study in areas of various community-based corrections. Students completing the program may find employment in probation, juvenile counseling settings, California Youth Authority, and half-way houses.

The completion of the Core Courses is required for eligibility of enrollment in HS 110 and is required for the completion of the Certificate Programs. It is recommended that these courses be taken as early as possible.
A minimum grade of "C" in all courses is required to receive the certificate.

Program Student Learning Outcomes
Students who complete this program will be able to
- Expand upon knowledge of multiple and diverse criminological theories.
- Exhibit an understanding of how the history of the criminal justice system relates to contemporary community-based corrections regulations and environments.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

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Total Core Units for the Certificate: 15

Required Courses:
- HS 37  INTRODUCTION TO CRIMINOLOGY       3
- HS 110* FIELD INSTRUCTION AND SEMINAR I  3.5
- HS 119  INTRODUCTION TO CRIMINAL JUSTICE SYSTEM  3
- HS 128  COMMUNITY-BASED CORRECTIONS  3
- HS 150* FIELD INSTRUCTION AND SEMINAR II  3.5
- HS 187  JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION  3

Select from Restricted Electives  3

Total Units for the Certificate: 37

Restricted Electives:
- HS 131  MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES  3
- HS 174  CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL  3
- HS 175  SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION  3
- HS 176* CO-OCCURRING DISORDERS  3
- HS 177  FAMILY DYNAMICS OF ADDICTION AND ABUSE  3
- HS 182* SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS  3
- HS 220  BENEFITS AND ENTITLEMENT  3

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

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Students who complete this program will be able to
- Expand upon knowledge of multiple and diverse criminological theories.
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Total Core Units for the Major: 15

Required Courses:
- HS 37  INTRODUCTION TO CRIMINOLOGY       3
- HS 110* FIELD INSTRUCTION AND SEMINAR I  3.5
- HS 119  INTRODUCTION TO CRIMINAL JUSTICE SYSTEM  3
- HS 128  COMMUNITY-BASED CORRECTIONS  3
- HS 150* FIELD INSTRUCTION AND SEMINAR II  3.5
- HS 187  JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION  3

Select from Restricted Electives  3

Total Units for the Certificate: 37

Restricted Electives:
- HS 131  MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES  3
- HS 174  CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL  3
- HS 175  SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION  3
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*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Science Degree

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

General Education Requirements for Associate Degrees

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.

The completion of the Core Courses is required for eligibility of enrollment in HS 110 and is required for the completion of the Certificate Programs. It is recommended that these courses be taken as early as possible.

A minimum grade of "C" in all courses is required to receive the certificate.
Program Student Learning Outcomes
Students who complete this program will be able to
- Exemplify knowledge of the breadth of the Human Services profession.
- Engage human services intervention skills on a micro and macro level.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

Core Courses

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<td>HS 100*</td>
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Total Core Units for the Certificate: 15

Required Courses:

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Total Units for the Major: 15

Restricted Electives:

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<td>APSY 150</td>
<td>HELPING RELATIONSHIPS</td>
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<td>HS 171</td>
<td>SUBSTANCE ABUSE - INTERVENTION, TREATMENT AND RECOVERY</td>
<td>3</td>
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<td>3</td>
</tr>
<tr>
<td>PSYC 125*</td>
<td>PSYCHOLOGY OF AGING</td>
<td>3</td>
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<tr>
<td>SOC 1</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
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<td>SOC 2</td>
<td>SOCIAL PROBLEMS</td>
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<td>SOC 10</td>
<td>INTRODUCTION TO MARRIAGE AND THE FAMILY</td>
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<tr>
<td>SOC 20</td>
<td>ETHNIC CULTURES OF THE UNITED STATES</td>
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Total Units for the Major: 77 Units

Human Services Generalist

Associate in Science Degree 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.

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Program Student Learning Outcomes
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- Engage human services intervention skills on a micro and macro level.
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</table>

Total Core Units for the Major: 15

Required Courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 110*</td>
<td>FIELD INSTRUCTION AND SEMINAR I</td>
<td>3.5</td>
</tr>
<tr>
<td>HS 131</td>
<td>MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES</td>
<td>3</td>
</tr>
<tr>
<td>HS 150*</td>
<td>FIELD INSTRUCTION AND SEMINAR II</td>
<td>3.5</td>
</tr>
<tr>
<td>HS 174</td>
<td>CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL</td>
<td>3</td>
</tr>
<tr>
<td>HS 176*</td>
<td>CO-OCCURRING DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>HS 177</td>
<td>FAMILY DYNAMICS OF ADDICTION AND ABUSE</td>
<td>3</td>
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</tbody>
</table>

Total Units for the Major: 37 Units

Restricted Electives:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>APSY 150</td>
<td>HELPING RELATIONSHIPS</td>
<td>3</td>
</tr>
<tr>
<td>HS 171</td>
<td>SUBSTANCE ABUSE - INTERVENTION, TREATMENT AND RECOVERY</td>
<td>3</td>
</tr>
<tr>
<td>HS 172</td>
<td>PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS</td>
<td>3</td>
</tr>
<tr>
<td>HS 175</td>
<td>SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION</td>
<td>3</td>
</tr>
<tr>
<td>HS 187</td>
<td>JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION</td>
<td>3</td>
</tr>
<tr>
<td>HS 220</td>
<td>BENEFITS AND ENTITLEMENT</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 125</td>
<td>PSYCHOLOGY OF AGING</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1</td>
<td>INTRODUCTION TO SOCIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2</td>
<td>SOCIAL PROBLEMS</td>
<td>3</td>
</tr>
<tr>
<td>SOC 10</td>
<td>INTRODUCTION TO MARRIAGE AND THE FAMILY</td>
<td>3</td>
</tr>
<tr>
<td>SOC 20</td>
<td>ETHNIC CULTURES OF THE UNITED STATES</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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

General Education Requirements for Associate Degrees
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.

Mental Health Worker 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. It will introduce students to benefits acquisitions, the recovery model, co-occurring disorders and integrated services, early identification of mental illness and evidence-based practices.

A minimum grade of "C" in all courses is required to receive the certificate.
Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate multiple approaches in their work with the mental health and co-occurring populations.
- Impart appropriate intervention practices to use with individuals and families impacted by mental health and/or co-occurring disorders.
- Use Human Services behavioral core, skills training and experiential learning in field work settings.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWE 180†</td>
<td>COOPERATIVE WORK EXPERIENCE - MENTAL HEALTH</td>
<td>2</td>
</tr>
<tr>
<td>HS 100*</td>
<td>INTRODUCTION TO HUMAN SERVICES</td>
<td>3</td>
</tr>
<tr>
<td>HS 120</td>
<td>HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT</td>
<td>3</td>
</tr>
<tr>
<td>HS 131</td>
<td>MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES</td>
<td>3</td>
</tr>
<tr>
<td>HS 140</td>
<td>GROUP LEADERSHIP AND GROUP PROCESS</td>
<td>3</td>
</tr>
<tr>
<td>HS 174</td>
<td>CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL</td>
<td>3</td>
</tr>
<tr>
<td>HS 176*</td>
<td>CO-OCCURRING DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>HS 177</td>
<td>FAMILY DYNAMICS OF ADDICTION AND ABUSE</td>
<td>3</td>
</tr>
<tr>
<td>HS 220</td>
<td>BENEFITS AND ENTITLEMENT</td>
<td>3</td>
</tr>
<tr>
<td>HS 285</td>
<td>ETHICAL ISSUES AND CLIENT’S RIGHTS</td>
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</tbody>
</table>

Total Units for the Certificate: 29

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

**Mental Health Worker**

**Associate in Science Degree 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. It will introduce students to HS 285 ETHICAL ISSUES AND CLIENT’S RIGHTS

Course ID | Title                                                | Units |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CWE 180†</td>
<td>COOPERATIVE WORK EXPERIENCE - MENTAL HEALTH</td>
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<tr>
<td>HS 100*</td>
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<td>HS 176*</td>
<td>CO-OCCURRING DISORDERS</td>
<td>3</td>
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<td>HS 177</td>
<td>FAMILY DYNAMICS OF ADDICTION AND ABUSE</td>
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<tr>
<td>HS 220</td>
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<td>3</td>
</tr>
<tr>
<td>HS 285</td>
<td>ETHICAL ISSUES AND CLIENT’S RIGHTS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for this Award: 9

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

**Eating Disorders Studies**

**Occupational Skills Award**

The Eating Disorders Studies (EDS) Occupational Skills Award offers three primary, nationally recognized eating disorders courses that are considered fundamental to the attainment of requisite knowledge and skills in the treatment of eating disorders. Students will gain the knowledge, training, and skills needed to identify, assess, and refer affected individuals to appropriate treatment.

Upon successful completion of the Eating Disorders Studies Occupational Skills Award, students will qualify to apply for certificates or credentials offered by the International Association of Eating Disorders Professionals and/or other certifying organizations such as the California Association for Alcohol and Drug Educators (CAADE) and the Breining Institute. The Eating Disorders Studies (EDS) Occupational Skills Award is a complement to any or all of the four Human Services certificates (Alcohol and Drug Studies, Generalist, Community-Based Corrections, and the Mental Health Worker). There are no prerequisites for these courses.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Qualify for credentials or certificates offered by the International Association of Eating Disorders Professionals and/or other accredited organizations such as the California Association for Alcohol and Drug Educators (CAADE) and the Breining Institute.
- Demonstrate an awareness of the various diagnosable eating disorders as outlined in the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders (DSM) 5.
- Recognize signs and symptomology of eating disorders and engage in effective intervention and appropriate referrals for the treatment of eating disorders.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 181</td>
<td>INTRODUCTION TO EATING DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>HS 184*</td>
<td>MEDICAL ASPECTS OF EATING DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>HS 185*</td>
<td>THE BACKGROUND AND TREATMENT OF EATING DISORDERS</td>
<td>3</td>
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</table>

Total Units for this Award: 9

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

**Humanities**

**Associate in Arts 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.

Program Student Learning Outcomes

Students who complete this program will be able to:
• Identify and evaluate the origin, growth, varieties, and cultural manifestations of individuality in different cultural traditions.
• Identify and evaluate nature (e.g., our conceptions of nature, our relation to nature, etc.) in different cultural traditions.
• Identify and evaluate economic, social, religious and artistic conflict between different cultural traditions.

Course ID   Title                                      Units
A minimum of 18 units from the following:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HIST 4</td>
<td>WORLD HISTORY to 1750</td>
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</tr>
<tr>
<td>HIST 5</td>
<td>WORLD HISTORY from 1750</td>
<td>3</td>
</tr>
<tr>
<td>HUM 1*</td>
<td>INTRODUCTION TO HUMANITIES</td>
<td>3</td>
</tr>
<tr>
<td>HUM 2*</td>
<td>ORIGINS OF WESTERN CULTURE IN LITERATURE</td>
<td>3</td>
</tr>
<tr>
<td>HUM 3*</td>
<td>THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE</td>
<td>3</td>
</tr>
<tr>
<td>HUM 10A*</td>
<td>CULTURE, SCIENCE, AND SOCIETY I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 10B*</td>
<td>CULTURE, SCIENCE, AND SOCIETY II</td>
<td>3</td>
</tr>
<tr>
<td>HUM 21*</td>
<td>THE SEARCH FOR MEANING - IDEAS OF SELF ACROSS CULTURES</td>
<td>3</td>
</tr>
<tr>
<td>HUM 22*</td>
<td>GODS, CLOCKS, AND VISIONS</td>
<td>3</td>
</tr>
<tr>
<td>HUM 25*</td>
<td>PLANET EARTH - CONTEMPORARY ISSUES AND CONTROVERSIES</td>
<td>3</td>
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<tr>
<td>PHIL 1*</td>
<td>INTRODUCTION TO PHILOSOPHY</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Major: 18

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

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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 providing multi-level, accredited courses that prepare students with the competencies required to enter the Interior Design profession. The Associate degree will be awarded after completion of Level III.

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate fundamental drafting skills, knowledge of color theory, career paths, and product knowledge related to merchandising.
• Use professional skills and effective communication techniques.
• Demonstrate beginning CAD skills required for merchandising and sales positions in the Interior Design field.

Course ID   Title                                      Units
<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 137</td>
<td>PROFESSIONAL SELLING FUNDAMENTALS</td>
<td>3</td>
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<tr>
<td>ID 110</td>
<td>FUNDAMENTALS OF INTERIOR DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ID 111*</td>
<td>INTERIOR DESIGN STUDIO I</td>
<td>3</td>
</tr>
<tr>
<td>ID 112</td>
<td>BEGINNING DRAFTING FOR INTERIORS</td>
<td>3</td>
</tr>
<tr>
<td>ID 113</td>
<td>INTERIOR DESIGN CAREERS</td>
<td>2</td>
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<tr>
<td>ID 114</td>
<td>APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN</td>
<td>3</td>
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<tr>
<td>ID 115</td>
<td>COMPUTER-AIDED DESIGN/DRAFTING FOR INTERIOR DESIGN</td>
<td>3</td>
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<tr>
<td>ID 116</td>
<td>INTERIOR MATERIALS AND PRODUCTS</td>
<td>3</td>
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</table>

Total Units for the Certificate: 24

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

Associate Degree will be awarded for Level III only.

Level II - Interior Design Assistant Certificate of Achievement
The Interior Design Assistant level meets the standards that can lead to a minimum preparation for design certification and employment as a design assistant.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate advancing skills in fundamental drafting, color theory, and product knowledge.
• Use professional skills and effective communication techniques.
• Demonstrate space planning, historical, graphic, business, advancing computer technique, and work experience skills required for Interior Design Assistant positions in the Interior Design field.

Course ID   Title                                      Units
<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ID 121*</td>
<td>THE SEARCH FOR MEANING - IDEAS OF SELF ACROSS CULTURES</td>
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<tr>
<td>ID 122</td>
<td>HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II</td>
<td>3</td>
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<tr>
<td>ID 123*</td>
<td>INTERIOR DESIGN ILLUSTRATION</td>
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<tr>
<td>ID 125</td>
<td>HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II</td>
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</tr>
<tr>
<td>ID 126*</td>
<td>INTERIOR DESIGN STUDIO II</td>
<td>3</td>
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<tr>
<td>ID 127*</td>
<td>FUNDAMENTALS OF LIGHTING</td>
<td>3</td>
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<tr>
<td>ID 128*</td>
<td>BUSINESS AND PROFESSIONAL PRACTICE FOR INTERIOR DESIGN</td>
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<tr>
<td>ID 129</td>
<td>INTERIOR DESIGN INTERNSHIP</td>
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<tr>
<td>CWE 180*</td>
<td>CO-OP-ED INTERIOR DESIGN</td>
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<tr>
<td>ID 216</td>
<td>DIGITAL VISUALIZATION FOR INTERIOR DESIGN</td>
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</tbody>
</table>

Total Units for the Certificate: 54

Associate Degree will be awarded for Level III only.

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

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate advanced knowledge of drafting, color theory, and product knowledge.
• Use advanced professional skills and effective communication techniques.
• Demonstrate advanced graphic, specialized design, code and CAD skills required for certification, professional affiliation &/or employment as a Professional Interior Designer.

Course ID   Title                                      Units
<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 137</td>
<td>PROFESSIONAL SELLING FUNDAMENTALS</td>
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</tr>
<tr>
<td>ID 110</td>
<td>FUNDAMENTALS OF INTERIOR DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ID 111*</td>
<td>INTERIOR DESIGN STUDIO I</td>
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<tr>
<td>ID 112</td>
<td>BEGINNING DRAFTING FOR INTERIORS</td>
<td>3</td>
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<tr>
<td>ID 113</td>
<td>INTERIOR DESIGN CAREERS</td>
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<td>ID 114</td>
<td>APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN</td>
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<td>ID 115</td>
<td>COMPUTER-AIDED DESIGN/DRAFTING FOR INTERIOR DESIGN</td>
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<tr>
<td>ID 116</td>
<td>INTERIOR MATERIALS AND PRODUCTS</td>
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<tr>
<td>ID 117</td>
<td>DESIGN STUDIO II</td>
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<tr>
<td>ID 118</td>
<td>COMPUTER-AIDED DESIGN/DRAFTING FOR INTERIOR DESIGN</td>
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<td>ID 119</td>
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</tr>
<tr>
<td>ID 133*</td>
<td>RENDERING AND RAPID VISUALIZATION FOR INTERIOR DESIGN</td>
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</table>

Total Units for the Certificate: 51

Associate Degree will be awarded for Level III only.
International Language

Arabic

Associate in Arts Degree Program
The Arabic Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Arabic. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate a comprehensive knowledge of Arabic vocabulary.
- Use proficient conversational skills in Arabic.
- Read and write in Arabic.
- Demonstrate introductory cultural and historic knowledge of Arabic speaking people.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>ARAB 1*</td>
<td>ELEMENTARY ARABIC</td>
<td>5</td>
</tr>
<tr>
<td>ARAB 2*</td>
<td>ELEMENTARY ARABIC</td>
<td>5</td>
</tr>
<tr>
<td>ARAB 3*</td>
<td>INTERMEDIATE ARABIC</td>
<td>5</td>
</tr>
<tr>
<td>ARAB 4*</td>
<td>INTERMEDIATE ARABIC</td>
<td>5</td>
</tr>
<tr>
<td>ARAB 901*</td>
<td>ARABIC LANGUAGE LAB</td>
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<tr>
<td>ARAB 902*</td>
<td>ARABIC LANGUAGE LAB</td>
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<td>ARAB 903*</td>
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<tr>
<td>ARAB 904*</td>
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</table>

Select one course from Restricted Electives 3

Total Units for the Major: 24

Restricted Electives:
- ARAB 21* INTRODUCTION TO ARABIC CULTURE 3
- CHI 21* INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S. 3
- FR 10* INTERMEDIATE CONVERSATIONAL FRENCH 3
- FR 21* INTRODUCTION TO FRENCH LANGUAGE AND CULTURE 3
- GER 10* INTERMEDIATE CONVERSATIONAL GERMAN 3
- ITA 21* INTRODUCTION TO ITALIAN CULTURE 3
- JA 21* INTRODUCTION TO JAPANESE CULTURE 3
- SPAN 10* INTERMEDIATE CONVERSATIONAL SPANISH 3
- SPAN 20A* CIVILIZATION OF SPAIN THROUGH 1898 3
- SPAN 20B* CIVILIZATION OF SPAIN 1898 TO PRESENT 3
- SPAN 21A* CIVILIZATION OF LATIN AMERICA THROUGH 1900 3
- SPAN 21B* CIVILIZATION OF LATIN AMERICA 1900-PRESENT 3
- SPAN 21C* HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES 3

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

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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Chinese

Associate in Arts Degree Program
The Chinese Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Chinese. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate a comprehensive knowledge of Chinese vocabulary.
- Use proficient conversational skills in Chinese.
- Read and write in Chinese.
- Demonstrate introductory cultural and historic knowledge of Chinese speaking people.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB 1*</td>
<td>ELEMENTARY ARABIC</td>
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</tr>
<tr>
<td>ARAB 2*</td>
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</tr>
<tr>
<td>ARAB 3*</td>
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<tr>
<td>ARAB 4*</td>
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</tr>
<tr>
<td>ARAB 901*</td>
<td>ARABIC LANGUAGE LAB</td>
<td>0.25</td>
</tr>
<tr>
<td>ARAB 902*</td>
<td>ARABIC LANGUAGE LAB</td>
<td>0.25</td>
</tr>
<tr>
<td>ARAB 903*</td>
<td>ARABIC LANGUAGE LAB</td>
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</tr>
<tr>
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<td>ARAB 905*</td>
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</table>

Select one course from Restricted Electives 3

Total Units for the Major: 24

Restricted Electives:
- ARAB 21* INTRODUCTION TO ARABIC CULTURE 3
- CHI 21* INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S. 3
- FR 10* INTERMEDIATE CONVERSATIONAL FRENCH 3
- FR 21* INTRODUCTION TO FRENCH LANGUAGE AND CULTURE 3
- GER 10* INTERMEDIATE CONVERSATIONAL GERMAN 3
- ITA 21* INTRODUCTION TO ITALIAN CULTURE 3
- JA 21* INTRODUCTION TO JAPANESE CULTURE 3
- SPAN 10* INTERMEDIATE CONVERSATIONAL SPANISH 3
- SPAN 20A* CIVILIZATION OF SPAIN THROUGH 1898 3
- SPAN 20B* CIVILIZATION OF SPAIN 1898 TO PRESENT 3
- SPAN 21A* CIVILIZATION OF LATIN AMERICA THROUGH 1900 3
- SPAN 21B* CIVILIZATION OF LATIN AMERICA 1900-PRESENT 3
- SPAN 21C* HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES 3

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

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.
Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of Chinese vocabulary.
- Use proficient conversational skills in Chinese.
- Read and write in Chinese.
- Demonstrate introductory cultural and historic knowledge of Chinese speaking people.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHI 1*</td>
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<td>CHI 2*</td>
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<td>CHI 3*</td>
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<tr>
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</tr>
<tr>
<td>CHI 903*</td>
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<tr>
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Select one course from Restricted Electives 3

Total Units for the Major: 24

Restricted Electives

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ARAB 21*</td>
<td>INTRODUCTION TO ARABIC CULTURE</td>
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</tr>
<tr>
<td>CHI 21*</td>
<td>INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S.</td>
<td>3</td>
</tr>
<tr>
<td>FR 10*</td>
<td>INTERMEDIATE CONVERSATIONAL FRENCH</td>
<td>3</td>
</tr>
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<td>CIVILIZATION OF SPAIN 1898 TO PRESENT</td>
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<tr>
<td>SPAN 21A*</td>
<td>CIVILIZATION OF LATIN AMERICA THROUGH 1900</td>
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<td>SPAN 21B*</td>
<td>CIVILIZATION OF LATIN AMERICA 1900-PRESENT</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 21C*</td>
<td>HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES</td>
<td>3</td>
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</tbody>
</table>

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

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

French

Associate in Arts Degree Program
The French Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in French. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of German vocabulary.
- Use proficient conversational skills in their language of study.
- Read and write in German.
• Demonstrate introductory cultural and historic knowledge of German speaking people.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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<td>INTERMEDIATE GERMAN</td>
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<td>GER 4*</td>
<td>INTERMEDIATE GERMAN</td>
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<tr>
<td>GER 901*</td>
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<td>GER 902*</td>
<td>GERMAN LANGUAGE LAB</td>
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<td>Select one course from Restricted Electives</td>
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Total Units for the Major: 24

Restricted Electives

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<th>Title</th>
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<tr>
<td>ARAB 21*</td>
<td>INTRODUCTION TO ARABIC CULTURE</td>
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</tr>
<tr>
<td>CHI 21*</td>
<td>INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S.</td>
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<tr>
<td>FR 10*</td>
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<td>3</td>
</tr>
<tr>
<td>GER 10</td>
<td>INTERMEDIATE CONVERSATIONAL GERMAN</td>
<td>3</td>
</tr>
<tr>
<td>ITA 21*</td>
<td>INTRODUCTION TO ITALIAN CULTURE</td>
<td>3</td>
</tr>
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<td>JA 21*</td>
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<td>SPAN 20B*</td>
<td>CIVILIZATION OF SPAIN 1898 TO PRESENT</td>
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<tr>
<td>SPAN 21A*</td>
<td>CIVILIZATION OF LATIN AMERICA THROUGH 1900</td>
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<tr>
<td>SPAN 21B*</td>
<td>CIVILIZATION OF LATIN AMERICA 1900-PRESENT</td>
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<tr>
<td>SPAN 21C*</td>
<td>HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Italian Associate in Arts Degree Program

The Italian Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Italian. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Demonstrate introductory cultural and historic knowledge of Italian speaking people.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
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<td>ITA 1</td>
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<tr>
<td>ITA 3</td>
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<tr>
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Total Units for the Major: 24

Restricted Electives

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ARAB 21*</td>
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</tbody>
</table>

Japanese Associate in Arts Degree Program

The Japanese Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Japanese. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Demonstrate a comprehensive knowledge of Japanese vocabulary.
• Use proficient conversational skills in Japanese.
• Read and write in Japanese.
• Demonstrate introductory cultural and historic knowledge of Japanese speaking people.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA 1*</td>
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<td>JA 3*</td>
<td>INTERMEDIATE JAPANESE</td>
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</tr>
<tr>
<td>JA 4*</td>
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<td>5</td>
</tr>
<tr>
<td>JA 999A*</td>
<td>JAPANESE LANGUAGE LAB</td>
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<td>JA 999B*</td>
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Total Units for the Major: 24

Restricted Electives

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<th>Course ID</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARAB 21*</td>
<td>INTRODUCTION TO ARABIC CULTURE</td>
<td>3</td>
</tr>
</tbody>
</table>
**Associate in Arts Degree**

Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**

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](http://www.assist.org) and to the transfer institution's catalog for transfer requirements.

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### Associate in Arts Degree in Spanish for Transfer

The curriculum in the Spanish program is designed to provide the transfer student an Associate in Arts in Spanish for Transfer degree by providing the necessary breadth in the field and the ability to complete both preparatory coursework for Spanish along with courses required for general education. Students who complete the Associate in Arts in Spanish for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain employment or promotion, a baccalaureate degree or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

**Please refer to** Graduation Requirements for more information on transfer degree requirements.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SPAN 1*</td>
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<td>SPAN 2*</td>
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</tr>
<tr>
<td>SPAN 4*</td>
<td>INTERMEDIATE SPANISH</td>
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</tbody>
</table>

Substitution Courses:
If a student places out of any core course(s) and is not awarded units for that course, the student will need to take additional units to compensate for the course/units required to reach at least 18 total units in the major (per Title 5 regulations). Course substitutions must be selected below from Group A.

GROUP A: Select one of the following courses (3 units):

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SPAN 5*</td>
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<tr>
<td>SPAN 20A*</td>
<td>CIVILIZATION OF SPAIN THROUGH 1898</td>
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</tr>
<tr>
<td>SPAN 20B*</td>
<td>CIVILIZATION OF SPAIN 1898 TO PRESENT</td>
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<td>SPAN 21A*</td>
<td>CIVILIZATION OF LATIN AMERICA THROUGH 1900</td>
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<tr>
<td>SPAN 21B*</td>
<td>CIVILIZATION OF LATIN AMERICA 1900-PRESENT</td>
<td>3</td>
</tr>
</tbody>
</table>

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

### Spanish Associate in Arts Degree Program

The Spanish Program offers lower-division preparation for students who plan on transferring to pursue a bachelor's degree in Spanish. Students planning to transfer and/or earn this associate degree may also need to complete additional requirements or electives required by the transfer institution, as many have unique admissions and preparation-for-the-major requirements. Students should meet with a counselor to identify required courses and to develop a written plan for their targeted university.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate comprehensive knowledge of Spanish vocabulary.
- Use proficient conversational skills in Spanish.
- Read and write in Spanish.
- Demonstrate introductory cultural and historic knowledge of Spanish speaking people.

<table>
<thead>
<tr>
<th>Course ID</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 1*</td>
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<tr>
<td>SPAN 904*</td>
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</tbody>
</table>

Select one course from Restricted Electives: 3

**Total Units for the Major: 24**

### Restricted Electives

ARAB 21* INTRODUCTION TO ARABIC CULTURE 3

CHI 21* INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S. 3

FR 10* INTERMEDIATE CONVERSATIONAL FRENCH 3

FR 21* INTRODUCTION TO FRENCH LANGUAGE AND CULTURE 3

GER 10 INTERMEDIATE CONVERSATIONAL GERMAN 3

ITA 21* INTRODUCTION TO ITALIAN CULTURE 3

JA 21* INTRODUCTION TO JAPANESE CULTURE 3

SPAN 10* INTERMEDIATE CONVERSATIONAL SPANISH 3

SPAN 20A* CIVILIZATION OF SPAIN THROUGH 1898 3

SPAN 20B* CIVILIZATION OF SPAIN 1898 TO PRESENT 3

SPAN 21A* CIVILIZATION OF LATIN AMERICA THROUGH 1900 3

SPAN 21B* CIVILIZATION OF LATIN AMERICA 1900-PRESENT 3

SPAN 21C* HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES 3

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**Associate in Arts Degree**

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**General Education Requirements for Associate Degrees**

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**

**Associate in Arts Degree in Journalism for Transfer**

Upon completion of the Associate in Arts in Journalism for Transfer, students will have a strong foundation in reporting and producing news content, as well as an understanding of the media industry, First Amendment and professional standards. Students will also have the opportunity to gain practical experience producing multi-dimensional content for student news publications and emerging platforms.

Students who complete the Associate in Arts in Journalism for Transfer degree will receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate a range of skills necessary for work as photographers, video journalists, designers, etc. in editorial departments of news organizations, magazines, industrial in-house publications, emerging businesses in media and related industries.
- Demonstrate an understanding of the First Amendment, media history and current trends in the industry.
- Demonstrate an understanding of professional standards, ethics and media law.
- Demonstrate practical skills and understanding of convergence, multimedia, emerging technology and innovation in journalism and the media industry.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRN 1</td>
<td>MASS MEDIA AND SOCIETY</td>
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<td>JRN 2*</td>
<td>NEWS WRITING</td>
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</tr>
<tr>
<td>JRN 111*</td>
<td>NEWS MEDIA PRODUCTION AND EDITING</td>
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<tr>
<td>or JRN 112*</td>
<td>NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL MEDIA</td>
<td>4</td>
</tr>
<tr>
<td>or JRN 107*</td>
<td>NEWS MEDIA PRODUCTION AND INVESTIGATIVE REPORTING</td>
<td>4</td>
</tr>
</tbody>
</table>

**Group A: Select one of the following courses (3-4 units)**

- JRN 106* VIDEO JOURNALISM
- JRN 109* NEWS MEDIA PRODUCTION AND DATA REPORTING

**Group B: Select two of the following courses (6-10 units)**

- MATH 10* INTRODUCTION TO STATISTICS
- ECON 4* PRINCIPLES OF MICRO
- or ECON 2* PRINCIPLES (MACRO)
- PS 1 AMERICAN GOVERNMENT
- PS 12 COMPARATIVE POLITICS AND GOVERNMENT
- ENG 1B* PRINCIPLES OF COMPOSITION II
- SP 3* ARGUMENTATION AND DEBATE

If selecting courses from the list below to fulfill Group B requirements the courses must come from two different disciplines.

**CSU Breadth areas within A through D or IGETC areas 1A through 5C**

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<tr>
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<td>NATURAL HISTORY OF CALIFORNIA</td>
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<tr>
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<td>THE HISTORY AND APPRECIATION OF AMERICAN CINEMA</td>
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<td>CROSS CULTURAL CINEMA</td>
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<td>CTVR 9</td>
<td>WOMEN IN CINEMA AND TELEVISION</td>
<td>3</td>
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<tr>
<td>MUS 27</td>
<td>HISTORY OF JAZZ</td>
<td>3</td>
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<td>MUS 28</td>
<td>HISTORY OF ROCK</td>
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<td>PHOT 25</td>
<td>HISTORY OF PHOTOGRAPHY</td>
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<td>CHI 1*</td>
<td>ELEMENTARY CHINESE</td>
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<td>FRI 1*</td>
<td>ELEMENTARY FRENCH</td>
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<tr>
<td>SL 1*</td>
<td>AMERICAN SIGN LANGUAGE I</td>
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<tr>
<td>SPAN 1*</td>
<td>ELEMENTARY SPANISH</td>
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<td>ANTH 2</td>
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<tr>
<td>ES 2</td>
<td>MULTICULTURAL IDENTITIES IN THE UNITED STATES</td>
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<tr>
<td>ES 10</td>
<td>MARGINS AND BORDER CROSSINGS</td>
<td>3</td>
</tr>
<tr>
<td>WS 10</td>
<td>INTRODUCTION TO WOMEN'S STUDIES</td>
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</tr>
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</table>

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

**Journalism Certificate Program**

The curriculum in the Journalism program provides the range of skills necessary for work in editorial departments of news organizations, magazines, industrial in-house publications, public relations, and emerging businesses in media and related industries. This program provides background and experience needed by persons who may be employed as photographers, video journalists, designers, and others.

The journalism program at Saddleback College seeks to give students an understanding of the media industry and First Amendment. Students develop their writing and reporting skills for a variety of news platforms, public relations and new and emerging businesses in the media and related industries.

In production courses, students receive hands-on training producing multi-dimensional content for student news publications on a variety of platforms. In skills classes, students learn the fundamentals of producing news content, interviewing, reporting, writing, news judgment, visual journalism, social media and are introduced to media law, ethics and professional standards. An emphasis is placed on emerging technology and journalism.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate a range of skills necessary for work in editorial departments of news organizations, magazines, and industrial in-house publications.
- Demonstrate a range of skills necessary for work in public relations, media and communications organizations, and startups.
- Successfully complete practical experiences needed by persons who may be employed as journalists, editors, photographers, video journalists, designers, and media professionals and related occupations.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>JRN 1</td>
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</tr>
<tr>
<td>or CTVR 1</td>
<td>MASS MEDIA AND SOCIETY</td>
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</table>
This program provides background and experience needed by students interested in the media industry and emerging businesses in media and related industries. In skills classes, students learn the fundamentals of news media production, blogging, and social media reporting. JRN 112* NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL MEDIA REPORTING

JRN 111* NEWS MEDIA PRODUCTION AND EDITING

JRN 113* MAGAZINE PRODUCTION FOR DIGITAL PLATFORMS

Select two News Media Production courses

Total Units for the Certificate: 23

News Media Production

JRN 107* NEWS MEDIA PRODUCTION AND INVESTIGATIVE REPORTING

JRN 109* NEWS MEDIA PRODUCTION AND DATA REPORTING

JRN 111* NEWS MEDIA PRODUCTION AND EDITING

JRN 112* NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL MEDIA

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

Journalism

Associate in Science Degree Program

The curriculum in the Journalism program provides the range of skills necessary for work in editorial departments of news organizations, magazines, industrial in-house publications, public relations, and emerging businesses in media and related industries. This program provides background and experience needed by persons who may be employed as photographers, video journalists, designers, and others.

The journalism program at Saddleback College seeks to give students an understanding of the media industry and First Amendment. Students develop their writing and reporting skills for a variety of news platforms, public relations and new and emerging businesses in the media and related industries.

In production courses, students receive hands-on training producing multi-dimensional content for student news publications on a variety of platforms. In skills classes, students learn the fundamentals of producing news content, interviewing, reporting, writing stories, news judgment, visual journalism, social media and are introduced to media law, ethics and professional standards. An emphasis is placed on emerging technology and journalism.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a range of skills necessary for work in editorial departments of news organizations, magazines, and industrial in-house publications.
- Demonstrate a range of skills necessary for work in public relations, media and communications organizations, and startups.
- Successfully complete practical experiences needed by persons who may be employed as journalists, editors, photographers, video journalists, designers, and media professionals and related occupations.

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</tr>
<tr>
<td>CTVR 1</td>
<td>MASS MEDIA AND SOCIETY</td>
<td>3</td>
</tr>
<tr>
<td>JRN 2*</td>
<td>NEWS WRITING</td>
<td>3</td>
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<tr>
<td>JRN 105</td>
<td>FEATURE WRITING</td>
<td>3</td>
</tr>
<tr>
<td>JRN 125*†</td>
<td>MAGAZINE JOURNALISM</td>
<td>3</td>
</tr>
<tr>
<td>JRN 113*</td>
<td>MAGAZINE PRODUCTION FOR DIGITAL PLATFORMS</td>
<td>3</td>
</tr>
<tr>
<td>Select two News Media Production courses</td>
<td>8</td>
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</tr>
</tbody>
</table>

Total Units for the Certificate: 23

Associate in Arts Degree in Kinesiology for Transfer

The Kinesiology major consists of courses appropriate for an Associate in Arts in Kinesiology for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline, and preparation for transfer to any CSU that accepts the AA-T. Students who complete the Associate in Arts in Kinesiology for Transfer degree receive priority admission with junior status to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate a beginning level of knowledge, skill, theory and strategy in at least one sport or physical activity.
- Explain and apply basic physiological principles of human movement in exercise and sports settings.
- Demonstrate an understanding of the structure and function of the body in human performance.
- Recognize the principles of physical fitness development and maintenance as well as the body’s responses to physical activity.
- Acquire an understanding of those factors instrumental in the development and performance of motor skills.
- Demonstrate an understanding of the value and significance of physical activity for human interactions, and quality of life.
- Analyze the history, research, and current information in Kinesiology and their current applications.
- Use campus and/or community resources to participate actively in their own education.
- Display leadership, cooperation, sportsmanship and integrity through active participation in fitness and sports.
- Encourage and promote the value of lifelong learning and quality of life through health, sport, fitness and physical activity.
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.

## Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate cognitive knowledge of fitness terminology and training in a specific subject area.
- Correctly perform the skills or strategy for a particular fitness activity or sport.
- Display effective gains through social interactions, teamwork, and sportsmanship in Kinesiology courses.
- Distinguish and articulate fundamental concepts or skills of a specific activity or sport.

## Kinesiology Associate in Arts Degree Program

**Course ID** | **Title** | **Units**
--- | --- | ---
KNES 51 | INTRODUCTION TO KINESIOLOGY | 3
BIO 11* | HUMAN ANATOMY | 4
BIO 12* | HUMAN PHYSIOLOGY | 4

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

### Aquatics

**Course ID** | **Title** | **Units**
--- | --- | ---
KNES 41 | SWIMMING FOR NONSWIMMERS | 1, 1.5
KNES 42* | INTERMEDIATE SWIMMING | 1, 1.5
KNES 44* | AQUATIC CONDITIONING | 1, 1.5

### Combatives

**Course ID** | **Title** | **Units**
--- | --- | ---
KNES 90 | BEGINNING SELF-DEFENSE | 1, 1.5
KNES 93 | BEGINNING KARATE | 1, 1.5
KNES 94 | BEGINNING AKI DO | 1, 1.5

### Individual Sports

**Course ID** | **Title** | **Units**
--- | --- | ---
KNES 1 | CARDIOVASCULAR CONDITIONING | 1, 1.5
KNES 50 | AEROBIC DANCE | 1, 1.5

### Team Sports

**Course ID** | **Title** | **Units**
--- | --- | ---
KNES 20 | BEGINNING GOLF I | 1, 1.5
KNES 24 | BEGINNING TENNIS I | 1, 1.5
KNES 25* | BEGINNING TENNIS II | 1, 1.5
KNES 26* | INTERMEDIATE TENNIS | 1, 1.5

### List A: Select two courses (7-9 units) from the following

- MATH 10* | INTRODUCTION TO STATISTICS | 3
- BIO 20 | INTRODUCTION TO BIOLOGY | 4
- CHEM 108 | INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY | 4
- CHEM 1A* | GENERAL CHEMISTRY | 5
- PHYS 2A* | INTRODUCTION TO PHYSICS | 5
- PHYS 4A* | GENERAL PHYSICS | 5

**Total Units for the Major: 21-24**

### Athletics

**Occupational Skills Award**

The Athletic Training Occupational Skills Award prepares the student for careers in Athletic Training and Physical Therapy for skills necessary for entry level positions in Physical Therapy Clinic or acceptance to an Athletic Training program at a four-year college or university.

**Course ID** | **Title** | **Units**
--- | --- | ---
BIO 11* | HUMAN ANATOMY | 4
BIO 20 | INTRODUCTION TO BIOLOGY | 4
HLTH 2 | FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR | 1.5
KNES 52 | FUNDAMENTALS OF HUMAN MOVEMENT | 3
KNES 53 | INTRODUCTION TO ATHLETIC TRAINING | 3
KNES 56* | PRACTICUM IN ATHLETIC TRAINING - FALL SPORTS | 2
or
KNES 59* | PRACTICUM IN ATHLETIC TRAINING - SPRING SPORTS | 2

**Total Units for the Award: 17.5**

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

**Coaching Occupational Skills Award**

This Occupational Skills Award is designed to prepare students for gaining employment in coaching in a scholastic setting or Sports management in youth sports at community centers, after school programs, and/or city and state sports activities. The students will...
gain a variety of experiences, skills and knowledge that will cover a multitude of sports.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FN 164</td>
<td>SPORTS NUTRITION</td>
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<tr>
<td>HLTH 2</td>
<td>FIRST AID, CPR, AND AUTOMATED EXTERNAL</td>
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<tr>
<td></td>
<td>DEFIBRILLATOR</td>
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<tr>
<td>KNES 51</td>
<td>INTRODUCTION TO KINESIOLOGY</td>
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<td>KNES 53</td>
<td>INTRODUCTION TO ATHLETIC TRAINING</td>
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<tr>
<td>KNES 54**</td>
<td>PRINCIPLES AND FUNDAMENTALS OF COACHING</td>
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<tr>
<td>KNES 105</td>
<td>MENTAL SKILLS FOR SPORTS PERFORMANCE</td>
<td>3</td>
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</tbody>
</table>

Select from Restricted Electives

Total Units for the Award: 17.5

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

Yoga Teacher Training Occupational Skills Award

Yoga Teacher Training is designed to deepen students’ understanding of yoga by investigating the biomechanics of yoga postures, learning to use anatomical cueing for proper alignment in poses, examining effective teaching techniques for a variety of settings, and exploring the history and philosophy of yoga. Upon successful completion of the Yoga Teacher Training Occupational Skills Award, students will be eligible to apply for their Yoga Alliance 200-hour instructor certification and will be prepared for employment as trained yoga teachers in public and private settings. Yoga Alliance is the largest and most influential governing body in the yoga field, thus providing our Yoga Teacher Training students the opportunity to teach as a yoga teacher with the Yoga Alliance 200-hour instructor certification and be prepared for employment as trained yoga teachers in public and private settings. Students planning to transfer to California State University (CSU), the University of California (UC), or an institution which accepts certification from Yoga Alliance, should complete the Yoga Teacher Training program and Yoga Alliance certification requirements or the Intersegmental General Education Requirement (IGETC) (37-39 units).

<table>
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<tr>
<td>KNES 61*</td>
<td>TEACHING OF YOGA</td>
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<td>KNES 62</td>
<td>PHILOSOPHY OF YOGA</td>
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<td>SELECT 2 COURSES FROM RESTRICTED ELECTIVES</td>
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Restricted Electives:

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<th>Units</th>
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<tr>
<td>KNES 28</td>
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<tr>
<td>KNES 39*</td>
<td>INTERMEDIATE YOGA</td>
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<tr>
<td>KNES 40*</td>
<td>ADVANCED YOGA</td>
<td>1.5</td>
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<tr>
<td>DANC 28</td>
<td>YOGA FOR DANCERS</td>
<td>1.5</td>
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</table>

Students who complete this program will be able to:

- Demonstrate core principles of Hatha Yoga.
- Interpret major lineages of yoga and related practices and the overall principles of yoga.
- Illustrate stress management techniques with yoga poses.
- Explain the values of a culture as expressed through its art or language.
- Demonstrate effective expository and persuasive writing skills.
- Develop a reasoned solution to a problem.
- Evaluate new and accepted ideas about the natural universe using testable methodology.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.

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

Liberal Studies

Associate in Arts Degree Program

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 Liberal Studies Major.

Students planning to transfer to California State University (CSU), the University of California (UC), or an institution which accepts certification from Yoga Alliance, should complete the Yoga Teacher Training program and Yoga Alliance certification requirements or the Intersegmental General Education Requirement (IGETC) (37-39 units).

Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain the values of a culture as expressed through its art or language.
- Demonstrate effective expository and persuasive writing skills.
- Develop a reasoned solution to a problem.
- Evaluate new and accepted ideas about the natural universe using testable methodology.
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.

Complete 18 units as described below:

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<td>SP 1 or 5</td>
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<td>PS 1</td>
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<td>ENG 1B*, 170; PHIL 12*; SP 2*, 3*</td>
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<tr>
<td>MATH 2*, 3A*, 3B*, 3C* 7*, 8*, 10*, 11*, 24*, 26*, 124*</td>
<td>3-5</td>
<td></td>
</tr>
</tbody>
</table>

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

Associate in Arts Degree

Complete a minimum of 60 units including the total number of units described above and the General Education requirements and an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Develop piloting and navigational skills required to properly navigate vessels in harbors, near shore, and open waters.
- Perform advanced seamanship techniques using current technology and electronic navigational instruments.
- Demonstrate spatial analysis of data and identify problems with acquisition and accuracy of data in marine ecological surveys.

Course ID | Title | Units
--- | --- | ---
ENV 18 | INTRODUCTION TO ECOLOGY | 4
BIO 19* | MARINE BIOLOGY | 4
MS 4 | SOUTHERN CALIFORNIA COASTAL ECOLOGY | 4
MS 20 | INTRODUCTION TO OCEANOGRAPHY | 4

Total Units for the Certificate: 23

Restricted Electives:

MST 201 | MARLINSPIKE SEAMANSHIP | 2
MST 202 | MARINE WEATHER | 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 218* | ELECTRONIC AIDS TO NAVIGATION | 3
MST 219* | MARINE ECOLOGICAL SURVEY/GIS | 3

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

Associate in Science Degree

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

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: CHEM 1A, CHEM 106; CIM 1; DR 100; 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate intermediate sailing skills, including basic maneuvers, navigational strategies, marlinspike seamanship techniques, anchoring techniques, and line handling.
- Demonstrate understanding of nautical terms, marine weather, points of sail and maneuvers, and demonstrate proficiency in their practical use.
- Demonstrate understanding of basic emergency and proper boating safety techniques and procedures.

Course ID | Title | Units
--- | --- | ---
MST 201 | MARLINSPIKE SEAMANSHIP | 2
MST 202 | MARINE WEATHER | 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 218* | ELECTRONIC AIDS TO NAVIGATION | 3
MST 219* | MARINE ECOLOGICAL SURVEY/GIS | 3

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

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate intermediate sailing skills, including basic maneuvers, navigational strategies, marlinspike seamanship techniques, anchoring techniques, and line handling.
- Demonstrate understanding of nautical terms, marine weather, points of sail and maneuvers, and demonstrate proficiency in their practical use.
- Demonstrate understanding of basic emergency and proper boating safety techniques and procedures.

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<td>MARINE WEATHER</td>
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<tr>
<td>MST 210</td>
<td>COASTAL NAVIGATION</td>
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<tr>
<td>MST 214B</td>
<td>ADVANCED CRUISING UNDER SAIL</td>
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<td>MST 215*</td>
<td>VESSEL COMMAND AND ORGANIZATION</td>
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Total Units for the Certificate: 23

**Restricted Electives:**

<table>
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<tr>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MST 211</td>
<td>CELESTIAL NAVIGATION</td>
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<tr>
<td>MST 212</td>
<td>SAILING, SEAMANSHIP, AND BOATING SAFETY</td>
<td>3</td>
</tr>
<tr>
<td>MST 214A</td>
<td>INTERMEDIATE OCEAN SAILING</td>
<td>3</td>
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<tr>
<td>MST 216</td>
<td>USCG MASTER LICENSE AND EXAMINATION PREPARATION</td>
<td>3</td>
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<tr>
<td>MST 218*</td>
<td>ELECTRONIC AIDS TO NAVIGATION</td>
<td>3</td>
</tr>
<tr>
<td>MST 219*</td>
<td>MARINE ECOLOGICAL SURVEY/GIS</td>
<td>3</td>
</tr>
<tr>
<td>MST 224</td>
<td>CHANNEL ISLANDS</td>
<td>1.5</td>
</tr>
</tbody>
</table>

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

**Total Units for the Certificate:** 23

**Mathematics**

**Associate in Science Degree in Mathematics for Transfer**

The curriculum in the Mathematics program is designed to provide the transfer student the opportunity to achieve an Associate in Science Degree for Transfer degree by providing the necessary breadth in the field, an introduction to the methods used, and the ability to complete both major preparatory coursework along with courses required for general education. Students who complete the Associate in Science Degree in Mathematics for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate computational skills at a variety of levels.
- Apply critical thinking skills.
- Demonstrate proficiency in graphing.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2A</td>
<td>PRE-CALCULUS MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 124*</td>
<td>TRIGONOMETRY</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2*</td>
<td>PRE-CALCULUS MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3A</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3AH</td>
<td>HONORS ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units for the Major: 22-24

Suggested coursework not required for the major: ET 101; DR 100, PHYS 2A.

**Mathematics**

**Associate in Arts 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.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate computational skills at a variety of levels.
- Apply critical thinking skills.
- Demonstrate proficiency in graphing.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 124*</td>
<td>TRIGONOMETRY</td>
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</tr>
<tr>
<td>MATH 2*</td>
<td>PRE-CALCULUS MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3A</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3AH</td>
<td>HONORS ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
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</tbody>
</table>

First Year

<table>
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<tr>
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<th>Title</th>
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</thead>
<tbody>
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<td>MATH 2A</td>
<td>PRE-CALCULUS MATHEMATICS</td>
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</table>

Second Year

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<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 124*</td>
<td>TRIGONOMETRY</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2*</td>
<td>PRE-CALCULUS MATHEMATICS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3A</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3AH</td>
<td>HONORS ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
</tbody>
</table>
MATH 3B* — ANALYTIC GEOMETRY AND CALCULUS 5
MATH 3C* — ANALYTIC GEOMETRY AND CALCULUS 5
MATH 24* — ELEMENTARY DIFFERENTIAL EQUATIONS 4
MATH 26* — INTRODUCTION TO LINEAR ALGEBRA 4

Total Units for the Major: 27-36

Restricted Electives: Select one of the following courses

CS 118* — INTRODUCTION TO COMPUTER SCIENCE II 5
or
CS 4A* — INTRODUCTION TO JAVA FOR COMPUTER SCIENCE 4

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

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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, electronic health records, 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 Assisting Program and will not be eligible for re-entry into the Saddleback College Medical Assisting Program.

A minimum grade of "C" in all courses is required to receive the certificate.

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 procedures, assisting with office surgery, giving medications including by injection, performing electrocardiograms, practicing medical and surgical asepsis, and working with electronic health records and other medical records. 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 hold a valid basic life support CPR card for healthcare providers and carry malpractice insurance while in MA 217B*.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate clinical patient skills
• Describe legal and ethical practices related to medical care
• Demonstrate medical office employability skills

A minimum grade of "C" in all courses is required to receive the certificate.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 201</td>
<td>MEDICAL TERMINOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>MA 206</td>
<td>INTRODUCTION TO MEDICAL ASSISTING</td>
<td>3</td>
</tr>
<tr>
<td>MA 211B</td>
<td>PHYSICAL-EXAMINATION PROCEDURES</td>
<td>3</td>
</tr>
<tr>
<td>MA 212B</td>
<td>MEDICAL OFFICE LABORATORY PROCEDURES</td>
<td>3</td>
</tr>
<tr>
<td>MA 213B</td>
<td>MEDICAL ASEPSIS AND SURGICAL PROCEDURES</td>
<td>3</td>
</tr>
<tr>
<td>MA 214B</td>
<td>MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS</td>
<td>3</td>
</tr>
<tr>
<td>MA 218B</td>
<td>ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT</td>
<td>2</td>
</tr>
<tr>
<td>MA 260</td>
<td>COMPUTER APPLICATIONS EHR IN HEALTH CARE</td>
<td>3</td>
</tr>
<tr>
<td>HSC 233</td>
<td>LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION</td>
<td>3</td>
</tr>
<tr>
<td>MA 217B</td>
<td>MEDICAL ASSISTING CLINICAL EXPERIENCE—CLINICAL</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 29

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

Suggested coursework not required for the major: BIO 113; EMT 207*, EMT 207C*; INSR 200; MA 211A, MA 212A, MA 213A, MA 214A, MA 214B, MA 218B.
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, computerized record keeping, blood draws, and patient education. Students are required to hold a valid basic life support CPR card for healthcare providers and carry malpractice insurance while in MA 217C*.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe legal and ethical practices related to medical care
- Demonstrate clinical patient skills
- Demonstrate medical office employability skills
- Demonstrate administrative medical skills

A minimum grade of "C" in all courses is required to receive the certificate.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 201</td>
<td>MEDICAL TERMINOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>MA 206</td>
<td>INTRODUCTION TO MEDICAL ASSISTING</td>
<td>3</td>
</tr>
<tr>
<td>MA 224A</td>
<td>BASIC MEDICAL INSURANCE</td>
<td>3</td>
</tr>
<tr>
<td>MA 211A</td>
<td>MEDICAL RECEPTION TECHNIQUES</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 213A</td>
<td>MEDICAL RECORDS MANAGEMENT</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 226A*</td>
<td>FUNDAMENTALS OF CPT AMBULATORY CODING FOR MEDICAL ASSISTANTS</td>
<td>3</td>
</tr>
<tr>
<td>MA 212A</td>
<td>MEDICAL OFFICE FINANCIAL PROCEDURES</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 212B</td>
<td>MEDICAL OFFICE LABORATORY PROCEDURES</td>
<td>3</td>
</tr>
<tr>
<td>MA 214B</td>
<td>MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS</td>
<td>3</td>
</tr>
<tr>
<td>MA 218B</td>
<td>ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT</td>
<td>2</td>
</tr>
<tr>
<td>MA 260</td>
<td>COMPUTER APPLICATIONS EHR IN HEALTH CARE</td>
<td>3</td>
</tr>
<tr>
<td>HSC 233</td>
<td>LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION</td>
<td>3</td>
</tr>
<tr>
<td>MA 228A*</td>
<td>FUNDAMENTALS OF ICD CODING</td>
<td>3</td>
</tr>
<tr>
<td>MA 211B</td>
<td>PHYSICAL EXAMINATION PROCEDURES</td>
<td>3</td>
</tr>
<tr>
<td>MA 213B</td>
<td>MEDICAL ASEPSIS AND SURGICAL PROCEDURES</td>
<td>3</td>
</tr>
<tr>
<td>MA 217C*</td>
<td>MEDICAL-ASSISTING CLINICAL EXPERIENCE COMPREHENSIVE</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 45.5

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

Suggested coursework not required for the major: BIO 113; EMT 207*; EMT 207C*; INSR 200.

Medical Insurance Billing Occupational Skills Award

Completion of the occupational skills award in Medical Insurance Billing provides entry level skills for employment in a medical office or as an independent consultant/contractor in medical insurance billing.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 201</td>
<td>MEDICAL TERMINOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>MA 260</td>
<td>COMPUTER APPLICATIONS EHR IN HEALTH CARE</td>
<td>3</td>
</tr>
</tbody>
</table>

Medical Lab Technology 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 healthcare sector.

The MLT program is a two-year curriculum leading to the Associate in Science degree in Medical Laboratory Technology. 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Perform analytical testing in various areas of the clinical laboratory including clinical chemistry, microbiology, hematology, immunology, coagulation, and urinalysis, and related areas.
- Practice established safety procedures and communicate effectively and professionally with patients, laboratory personnel, and other members of the health care team.
- Participate in continuing education activities to maintain and improve professional competencies within the community as defined by the California Laboratory Field Services.
- Demonstrate preparation for applicable State of California approved certification exam.

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 Laboratory Technology course, that student will be dropped from the Medical Laboratory Technology Program and will not be eligible for re-entry into the Saddleback College Medical Laboratory Technology program. A student may not enter Clinical Experience until all courses are completed with a grade of "C" or better.

Required pre-requisites prior to Medical Lab Technician Sequence:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 15*</td>
<td>GENERAL MICROBIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>BIO 113</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 108</td>
<td>INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY</td>
<td>4</td>
</tr>
<tr>
<td>MATH 253*</td>
<td>INTERMEDIATE ALGEBRA</td>
<td>5</td>
</tr>
<tr>
<td>MLT 210</td>
<td>INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION</td>
<td>1</td>
</tr>
<tr>
<td>MLT 211*</td>
<td>BASIC LABORATORY PROCEDURES</td>
<td>1</td>
</tr>
<tr>
<td>PHLB 240*</td>
<td>PHLEBOTOMY</td>
<td>4</td>
</tr>
</tbody>
</table>
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Program Student Learning Outcomes

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- Perform analytical testing in various areas of the clinical laboratory including clinical chemistry, microbiology, hematology, immunology, coagulation, and urinalysis, and related areas.
- Practice established safety procedures and communicate effectively and professionally with patients, laboratory personnel, and other members of the health care team.
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Required pre-requisites prior to Medical Lab Technician Sequence:

<table>
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<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 15</td>
<td>GENERAL MICROBIOLOGY 5 *</td>
<td>5</td>
</tr>
<tr>
<td>BIO 113</td>
<td>HUMAN ANATOMY AND PHYSIOLOGY 4</td>
<td>4</td>
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<tr>
<td>CHEM 108</td>
<td>INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY 4</td>
<td>4</td>
</tr>
<tr>
<td>MATH 253</td>
<td>INTERMEDIATE ALGEBRA 5 *</td>
<td>5</td>
</tr>
<tr>
<td>MLT 210</td>
<td>INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION 1 Unit</td>
<td>1</td>
</tr>
<tr>
<td>MLT 211</td>
<td>BASIC LABORATORY PROCEDURES 1 Unit</td>
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<tr>
<td>PHLB 240</td>
<td>PHLEBOTOMY 4</td>
<td>4</td>
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Required Courses:

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<tr>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CWE 180*</td>
<td>CO-OP-ED PHLEBOTOMIST</td>
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<td>MLT 230*</td>
<td>CLINICAL CHEMISTRY</td>
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<td>MLT 232*</td>
<td>CLINICAL MICROBIOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>MLT 235*</td>
<td>CLINICAL URINALYSIS 1</td>
<td>1</td>
</tr>
<tr>
<td>MLT 236*</td>
<td>CLINICAL HEMATOLOGY AND COAGULATION</td>
<td>3</td>
</tr>
<tr>
<td>MLT 242*</td>
<td>CLINICAL CHEMISTRY PRACTICUM</td>
<td>4</td>
</tr>
<tr>
<td>MLT 243*</td>
<td>CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>MLT 244*</td>
<td>CLINICAL HEMATOLOGY, COAGULATION, AND URINALYSIS PRACTICUM</td>
<td>4</td>
</tr>
<tr>
<td>MLT 252*</td>
<td>CLINICAL MICROBIOLOGY PRACTICUM</td>
<td>4</td>
</tr>
<tr>
<td>MLT 253*</td>
<td>CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY PRACTICUM</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 56

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

Medical Lab Technology Associate in Science Degree Program

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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 in Arts Degree in Music for Transfer

The curriculum in the Music program is designed to provide the student an opportunity to achieve the Associate in Arts in Music for Transfer. Students who complete the Associate in Arts in Music for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. The courses required in this program provide students with a minimum foundation of knowledge to pursue advanced study in vocal, instrumental or jazz music performance. Most transfer institutions require that applicants pass a competitive audition before being accepted into the program. Transfer students should consult their transfer institutions of choice for further information on specific lower-division music major requirements.

While an associate degree may support attempts to gain employment or promotion, a baccalaureate degree or higher degree is recommended for those considering professional careers, which can be achieved through transfer. The following is a list of possible career paths for the music major, some requiring additional education and experience: performer, choral director, instrumental conductor, music teacher, music director, music therapist, music librarian, composer/arranger, copyist, music repair technician, music instrument sales representative, music critic, music editor, performing arts manager.

Please refer to Graduation Requirements for more information on transfer degree requirements.
Program Student Learning Outcomes
Students who complete this program will be able to:
- analyze musical scores and compositions
- critique personal music performances and those of other musicians
- analyze and perform the elements of music (rhythm, melody, harmony, and form)
- create derivative or original music at a level appropriate to the area of specialization
- compare and contrast the characteristics of various musical cultures and historical periods from the origin of music history to the present

The following is required for all AA-T or AS-T degrees:
1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following.
   A. The California State University General Education – Breadth Requirements.
   B. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0. Students must earn a C or better in all courses required in the major or area of emphasis.

Course ID | Title | Units
---|---|---
| MUS 1 | THE BASICS OF MUSIC | 3
| MUS 10* | HARMONY I | 3
| MUS 11* | HARMONY II | 3
| MUS 12* | HARMONY III | 3
| MUS 92* | MUSICIANSHIP I | 1
| MUS 93* | MUSICIANSHIP II | 1
| MUS 94* | MUSICIANSHIP III | 1

Applied Music: Four semesters required (4 Units)
MUS 50* | APPLIED MUSIC | 1

Large Ensemble: Four semesters required (8 units)
Two semesters must be selected from either of the following courses (4 Units):
| MUS 35* | CONTEMPORARY CHOIR | 2
| MUS 47* | SADDLEBACK COLLEGE BIG BAND | 2

Two additional semesters may be selected from any of the following courses (4 Units):
| MUS 35* | CONTEMPORARY CHOIR | 2
| MUS 41* | SYMPHONIC WIND ENSEMBLE | 2
| MUS 42* | SYMPHONIC ORCHESTRA | 2
| MUS 47* | SADDLEBACK COLLEGE BIG BAND | 2

Total Units for the Major: 27

Program Student Learning Outcomes
Students who complete this program will be able to:
- analyze musical scores and compositions
- critique personal music performances and those of other musicians
- analyze and perform the elements of music (rhythm, melody, harmony, and form)
- create derivative or original music at a level appropriate to the area of specialization
- compare and contrast the characteristics of various musical cultures and historical periods from the origin of music history to the present

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

Course ID | Title | Units
---|---|---
MUS 10* | HARMONY I | 3
MUS 11* | HARMONY II | 3
MUS 50* | APPLIED MUSIC: INSTRUMENTAL | 2.5, 2.5
MUS 51* | APPLIED MUSIC: KEYBOARD | 2.5, 2.5
MUS 52* | APPLIED MUSIC: VOICE | 2.5, 2.5

Select two courses from: MUS 31, 32, 33, 34, 35*, 40, 41*, 42*, 47*, 62, 63, 64, 66, 75, 148 or 297

Total Units for the Major: 24-27

*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 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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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 Production

Occupational Skills Award
Provides students with entry-level skills for employment in the fields of music production, film/tv/game composition, live performance, sound design, music editing and music recording. Students will use industry-recognized software to create, edit and perform music. The OSA also provides students with the music business knowledge necessary to promote their work.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Operate a digital audio workstation and setup software and hardware.
- Use midi and virtual instruments.
- Create music using Ableton Live.
- Edit music using Ableton Live.
• Perform music using Ableton Live and a midi controller.
• Describe various roles in the music industry.
• Explain how to publish, market and promote musical compositions.

Course ID | Title | Units
--- | --- | ---
MUS 130 | MUSIC PRODUCTION I | 2.5
MUS 131* | MUSIC PRODUCTION II | 2
MUS 120 | INTRODUCTION TO THE MUSIC INDUSTRY | 3

Total Units for the Award: 7.5

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.

Registered Nurse Certificate Program

Every required prerequisite and core class must be completed with a “C” or better.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Demonstrate sufficient preparation to pass the NCLEX upon first attempt.
• Promote and maintain a safe environment by integrating current evidence-based practice, the nursing process, and skill competency to deliver quality health care.
• Demonstrate the knowledge, skills, and attitudes required of the professional nurse as defined by the California Nurse Practice Act and standards of nursing practice.

Course ID | Title | Units
--- | --- | ---
Required prerequisites prior to Nursing Clinical Sequence:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 11*</td>
<td>HUMAN ANATOMY</td>
<td>4</td>
</tr>
<tr>
<td>BIO 12*</td>
<td>HUMAN PHYSIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>BIO 15*</td>
<td>GENERAL MICROBIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>ENG 1A*</td>
<td>PRINCIPLES OF COMPOSITION I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Prerequisite Units: 17

Eligible for Entry into Nursing Clinical Sequence

Semester I

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 165</td>
<td>LIFECYCLE 1, FUNDAMENTALS OF AGING</td>
<td>1.5</td>
</tr>
<tr>
<td>N 160*</td>
<td>PHARMACOLOGY FOR NURSING</td>
<td>2.5</td>
</tr>
<tr>
<td>N 170*</td>
<td>NURSING PROCESS</td>
<td>3.25</td>
</tr>
<tr>
<td>N 170*</td>
<td>NURSING PROCESS LAB</td>
<td>4.5</td>
</tr>
<tr>
<td>N 171*</td>
<td>MENTAL HEALTH NURSING</td>
<td>2</td>
</tr>
<tr>
<td>N 171*</td>
<td>MENTAL HEALTH NURSING LAB</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units for the Semester: 14.75

Semester II:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 161</td>
<td>LIFECYCLE 2, GROWTH AND DEVELOPMENT</td>
<td>1.5</td>
</tr>
<tr>
<td>N 172*</td>
<td>MEDICAL-SURGICAL NURSING</td>
<td>3.5</td>
</tr>
<tr>
<td>N 172*</td>
<td>MEDICAL-SURGICAL NURSING LAB</td>
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<tr>
<td>SP 5</td>
<td>INTERPERSONAL COMMUNICATION</td>
<td>3</td>
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</tbody>
</table>

Total Units for the Semester: 11

Total Units for the Certificate: 63

or

Required prerequisites prior to Nursing Clinical Sequence:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 11*</td>
<td>HUMAN ANATOMY</td>
<td>4</td>
</tr>
<tr>
<td>BIO 12*</td>
<td>HUMAN PHYSIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>BIO 15*</td>
<td>GENERAL MICROBIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>ENG 1A*</td>
<td>PRINCIPLES OF COMPOSITION I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Prerequisite Units: 17

Eligible for Entry into Nursing Clinical Sequence

Semester I

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 165</td>
<td>LIFECYCLE 1, FUNDAMENTALS OF AGING</td>
<td>1.5</td>
</tr>
<tr>
<td>N 160*</td>
<td>PHARMACOLOGY FOR NURSING</td>
<td>2.5</td>
</tr>
<tr>
<td>N 170*</td>
<td>NURSING PROCESS</td>
<td>3.25</td>
</tr>
<tr>
<td>N 170*</td>
<td>NURSING PROCESS LAB</td>
<td>4.5</td>
</tr>
<tr>
<td>N 171*</td>
<td>MENTAL HEALTH NURSING</td>
<td>2</td>
</tr>
<tr>
<td>N 171*</td>
<td>MENTAL HEALTH NURSING LAB</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units for the Semester: 14.75

Semester II:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 161</td>
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</tr>
<tr>
<td>N 172*</td>
<td>MEDICAL-SURGICAL NURSING LAB</td>
<td>5.25</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>INTRODUCTION TO PSYCHOLOGY</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 63

Upon completion of the Registered Nurse Certificate Students are eligible for RN Licensure Exam

Accreditation

The Nursing Program is approved by the California Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing (ACEN).

Selected clinical experiences in various hospitals, clinics, and community agencies are provided throughout the Nursing Program.

California Board of Registered Nursing (BRN)
P.O. Box 944210
Sacramento, CA. 94244
(916) 322-3350
http://www.rn.ca.gov/

To Contact ACEN
3343 Peachtree Road NE, Suite 850
Atlanta, Georgia 30326
Phone: (404) 975-5000
Fax: (404) 975-5020
Email: info@acenursing.org
www.acenursing.org

Registered Nurse Associate in Science Degree Program

Every required prerequisite and core class must be completed with a “C” or better.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Demonstrate sufficient preparation to pass the NCLEX upon first attempt.
• Promote and maintain a safe environment by integrating current evidence-based practice, the nursing process, and skill competency to deliver quality health care.
• Demonstrate the knowledge, skills, and attitudes required of the professional nurse as defined by the California Nurse Practice Act and standards of nursing practice.

Course ID | Title | Units
--- | --- | ---
Required prerequisites prior to Nursing Clinical Sequence:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
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<tbody>
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</tr>
<tr>
<td>ENG 1A*</td>
<td>PRINCIPLES OF COMPOSITION I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Prerequisite Units: 17

Eligible for Entry into Nursing Clinical Sequence

Semester I

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>N 171*</td>
<td>MENTAL HEALTH NURSING</td>
<td>2</td>
</tr>
<tr>
<td>N 171*</td>
<td>MENTAL HEALTH NURSING LAB</td>
<td>1</td>
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</tbody>
</table>

Total Units for the Semester: 14.75

Semester II:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>PSYC 1</td>
<td>INTRODUCTION TO PSYCHOLOGY</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Semester: 11

Total Units for the Certificate: 63
Student will be ranked according to their total points achieved on all of the admission criteria. Those with the highest scores will be admitted.

Applications will be taken each semester for approximately a two week period at the end of February (for Fall admission) and a two week period at the end of June (for Spring admission).

Consideration will be given to each applicant's prior education in any of the following areas: basic science courses, life experience, proficiency/course work in a second language, ATI-TEAS testing scores.

Students admitted under the Advanced Placement Option are eligible for either the Registered Nurse Certificate or Associate in Science Degree upon completion of program requirements.

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.

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.

1. Admission of LVNs to the Nursing program is on a space-available basis. To be placed on the waitlist requires:
2. Proof of satisfactory completion of an accredited VN program or a current California VN license.
3. Completion of all the core science courses: BIO 11*, 12*, 15*, and ENG 1A* or equivalent, with a grade of "C" or better.
4. Completion of N 162* (lecture), N 162* (lab), and N 164 with a grade of "C" or better within a maximum of two years of program entry.
5. Completion of matriculation testing.
6. Overall GPA of 2.5 in prerequisite courses.
7. Attendance at "LVN to RN" guidance session.
8. Application submitted with the Director/Assistant Director of Nursing.
9. Completion of standardized Pre Admission test validates by CCCCO at or above designated cut scores.
10. Proof of completion of a minimum of one (1) year of direct patient care.

Students who have successfully completed all prerequisite and core classes, and have an overall GPA of 3.0 or above for the program, will be admitted to the ADN degree, life experience, proficiency/course work in a second language, proficiency in English, and completion of an accredited VN program or a current California VN license.

The Licensed Vocational Nurse (LVN) to Registered Nurse (RN) Advanced Placement Option is open to students who have 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

Students may use the following resources to obtain information or seek clarification regarding nursing issues:

California Board of Registered Nursing
P. O. Box 944210
Sacramento, CA 94244
916-322-3350

Accrediting Commission for Education in Nursing, Inc.
3343 Peachtree Road, NE, Suite 850
Atlanta, Georgia 30326
404-975-5000

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Consideration will be given to each applicant's prior education in any of the following areas: basic science courses, life experience, proficiency/course work in a second language, ATI-TEAS testing scores.

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The Licensed Vocational Nurse (LVN) to Registered Nurse (RN) Advanced Placement Option is open to students who have 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
Students who complete this program will be able to:

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.

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 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* (lecture) and N 162* (lab) with a grade of "C" or better within a maximum of 3 semesters 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 minimum 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 completed with a "C" or better.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate sufficient preparation to pass the NCLEX upon first attempt.
- Promote and maintain a safe environment by integrating current evidence-based practice, the nursing process, and skill competency to deliver quality health care.
- Demonstrate the knowledge, skills, and attitudes required of the professional nurse as defined by the California Nurse Practice Act and standards of nursing practice.

Courses Required for the 30-Unit Option:

Required Prerequisites:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 12*</td>
<td>HUMAN PHYSIOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>BIO 15*</td>
<td>GENERAL MICROBIOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>N 162*</td>
<td>SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING</td>
<td>1</td>
</tr>
<tr>
<td>N 162*</td>
<td>SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING LAB</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Required Core Classes:

| N 165     | LIFECYCLE 1, FUNDAMENTALS OF AGING          | 1.5   |
| N 171*    | MENTAL HEALTH NURSING                      | 2     |
| N 171*    | MENTAL HEALTH NURSING LAB                   | 1     |
| N 173*    | NURSING CARE OF CHILDREN AND FAMILIES       | 1.5   |
| N 173*    | NURSING CARE OF CHILDREN AND FAMILIES LAB    | 2     |
| N 174*    | WOMEN'S HEALTH NURSING                     | 1.5   |
| N 174*#   | WOMEN'S HEALTH NURSING LAB                  | 2     |
| N 176*#v  | ADVANCED NURSING                           | 3     |
| N 176*#v  | ADVANCED NURSING LAB                        | 5     |

Total Units for the Certificate: 30

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

#Clinical course.

Fulfills the Management & Leadership and Advanced Medical-Surgical requirement.

Accreditation
The Nursing Program is approved by the California Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing (ACEN).

California Board of Registered Nursing (BRN)
P.O. Box 944210
Sacramento, CA. 94244
(916) 322-3350
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Fax: (404) 975-5020
Email: info@acenursing.org
www.acenursing.org

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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Determine and translate nutrient needs into menus for individuals and groups across the lifespan, in diverse cultures and religions, and for different income levels.
- Demonstrate skills in basic food safety and preparation.
- Differentiate between various requirements for careers in nutrition.
- Please see a counselor for assistance in planning a transfer 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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Determine and translate nutrient needs into menus for individuals and groups across the lifespan, in diverse cultures and religions, and for different income levels.
- Demonstrate skills in basic food safety and preparation.
- Differentiate between various requirements for careers in nutrition.
- Please see a counselor for assistance in planning a transfer program.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FCS 115</td>
<td>CONSUMER ISSUES</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>FCS 142</td>
<td>3</td>
</tr>
<tr>
<td>CWE 180†</td>
<td>CO-OP-ED FOODS AND NUTRITION</td>
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</tr>
<tr>
<td>FN 50†</td>
<td>FUNDAMENTALS OF NUTRITION</td>
<td>3</td>
</tr>
<tr>
<td>FN 64†</td>
<td>NUTRITION ISSUES AND CONTROVERSIES</td>
<td>3</td>
</tr>
<tr>
<td>FN 110*</td>
<td>FOOD PREPARATION ESSENTIALS</td>
<td>3</td>
</tr>
<tr>
<td>FN 120*</td>
<td>CONTEMPORARY MEALS</td>
<td>3</td>
</tr>
<tr>
<td>FN 160</td>
<td>NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS</td>
<td>3</td>
</tr>
<tr>
<td>FN 164</td>
<td>SPORTS NUTRITION</td>
<td>2</td>
</tr>
<tr>
<td>FN 171</td>
<td>SANITATION AND SAFETY</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>FN 210</td>
<td>1</td>
</tr>
<tr>
<td>FN 230*</td>
<td>SERVSAFE IN FOOD PRODUCTION</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>FN 232</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>FN 232†</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units for the Certificate: 25-26

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
† FN 50 recommended prior to CWE 180.

Oceanography

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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Explain the origins and history of oceanography and current developments and trends in the discipline
- Discuss how plate tectonics shapes the continental margin, the oceanic basin and its sediments; explain the distribution of pelagic and benthic communities in the oceanic environment
- Explain the directions and causes of atmospheric and oceanic circulation patterns and assess their impact on marine life and productivity; relate these to waves, tides and coastal characteristics
- Discuss various types of marine resources and assess the various environmental concerns related to the use and abuse of marine resources

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
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<tbody>
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</tr>
<tr>
<td>CHEM 1B*</td>
<td>GENERAL CHEMISTRY</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 1†</td>
<td>INTRODUCTION TO PHYSICAL GEOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3A*</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
<tr>
<td>MS 20</td>
<td>INTRODUCTION TO OCEANOGRAPHY</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3B*</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3C*</td>
<td>ANALYTIC GEOMETRY AND CALCULUS</td>
<td>5</td>
</tr>
<tr>
<td>MATH 10†</td>
<td>INTRODUCTION TO STATISTICS</td>
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<tr>
<td>PHYS 4A†</td>
<td>GENERAL PHYSICS</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 4B†</td>
<td>GENERAL PHYSICS</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units for the Major: 46

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
† FN 50 recommended prior to CWE 180.

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.
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 license and one-year recent work experience. Students must have or purchase malpractice insurance prior to taking PM 230*.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate entry level skills for a variety of roles at the entry-level as a Paramedic.
- Demonstrate sufficient preparation to pass the NREMT-P.
- Apply skills in didactic, psycho-motor, and affective domains needed to perform the duties as a Paramedic in the community.
- Complete the FISDAP Paramedic National Registry of Emergency Medical Technicians Advanced Level Paramedic Exam preparation.

**Course ID** | **Title** | **Units**
---|---|---
PM 220† | PARAMEDIC THEORY | 14
PM 230† | PARAMEDIC CLINICAL EXPERIENCE | 7.5
PM 240† | PARAMEDIC FIELD INTERNSHIP | 12

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†A minimum grade of "B" is required.

**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 must be completed at Saddleback College.

**General Education Requirements for Associate Degrees**

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.

**Accreditation**

The Saddleback Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

**Associate in Arts Degree in Philosophy for Transfer**

The curriculum in the Philosophy program is designed to provide the transfer student an Associate in Arts in Philosophy for Transfer degree by providing the necessary breadth in the field and the ability to complete both preparatory coursework for philosophy along with courses required for general education. Students who complete the Associate in Arts in Philosophy for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain employment or promotion, a baccalaureate degree or higher degree is recommended for those considering professional careers, which can be achieved through transfer. Majors in Philosophy is an excellent way of preparing for law school or preparing careers that involve facility in writing skills, reasoning, analysis, and information processing.

**Course ID** | **Title** | **Units**
---|---|---
PM 220† | PARAMEDIC THEORY | 14
PM 230† | PARAMEDIC CLINICAL EXPERIENCE | 7.5
PM 240† | PARAMEDIC FIELD INTERNSHIP | 12

To contact CoAEMSP:
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
(214) 703-8845
FAX (214) 703-8992
www.coaemsp.org
REQUIRED CORE: Select two (6 Units)
PHIL 12* INTRODUCTION TO LOGIC 3
AND
PHIL 1* INTRODUCTION TO PHILOSOPHY 3
OR
PHIL 15* INTRODUCTION TO ETHICS 3

Group A: Select one of the following courses or any course from the REQUIRED CORED not already used (3 Units)
PHIL 103* HISTORY OF ANCIENT PHILOSOPHY 3
PHIL 104* HISTORY OF MODERN PHILOSOPHY 3

GROUP B: Select two of the following courses or any course from GROUP A not already used (6)
HIST 62 EUROPEAN HISTORY TO 1650 3
HIST 63 EUROPEAN HISTORY SINCE 1650 3
PHIL 14* PHILOSOPHY OF RELIGION 3
PHIL 10* WORLD RELIGIONS 3

GROUP C: Select the following course or any one course from GROUP A or B not already used (3 Units)
HUM 1* INTRODUCTION TO HUMANITIES 3

Total Units for the Major 18

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

Philosophy
Associate in Arts 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.

Program Student Learning Outcomes

Students who complete this program will be able to:
• Identify and evaluate the main philosophical theories in metaphysics, epistemology, and ethics in the Western tradition.
• Use logical principles (i.e. formal and/or informal logic) and apply them to everyday examples.
• Recognize and understand the universalizing, structuring, and metaphorical power of language as it affects thinking and theorizing.

Photography
Associate in Arts 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.

Program Student Learning Outcomes

Students who complete this program will be able to:
• Demonstrate skills in using camera controls to create an intended image.
• Produce imagery that exhibits an understanding of the principles of design and composition.
• Demonstrate an understanding of new photographic techniques and processes.
Restricted Electives:
PHOT 154* ALTERNATIVE DIGITAL PROCESSES 3
PHOT 157* STUDI O LIGHTING 3
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: ART 80; JRN 1/CTVR 1.

Physical Science

Associate in Arts Degree Program
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, preprofessional, preoptometry, and prepharmacy.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Analyze and interpret data, charts and graphs using quantitative and qualitative methods.
• Recognize and construct valid arguments using deductive and inductive reasoning.
• Evaluate new and accepted ideas about the natural universe using testable methodology.

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) (37-39 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*
CHEM 1A*, 1B*, 3*, 12A*, 12B*, 108
ENV 23, 25, 30, 105*, 106
GEOS 1, 3L*, 2, 3, 38, 102, 110*
GEOL 1, 2*, 3, 4, 7, 20, 21, 23
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 in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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 in Science Degree in Physics for Transfer
The Associate in Science in Physics for Transfer degree provides a foundation in physics and mathematics for students planning to transfer into a baccalaureate program in physics or physics education. This background should provide students with the tools to successfully complete a bachelor's degree.

Students who complete the Associate in Science in Physics for Transfer degree receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate understanding of classical (or Newtonian) and fluid dynamics.
• Demonstrate understanding of classical electricity and magnetism.
• Demonstrate understanding of quantum mechanics, nuclear physics, optics and the special theory of relativity.

Course ID Title Units
PHYS 4A* GENERAL PHYSICS 5
PHYS 4B* GENERAL PHYSICS 5
MATH 3A* ANALYTIC GEOMETRY AND CALCULUS 5
MATH 3B* ANALYTIC GEOMETRY AND CALCULUS 5
MATH 3C* ANALYTIC GEOMETRY AND CALCULUS 5
Total Units for the Major: 30

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

Physics

Associate in Science 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate understanding of classical (or Newtonian) and fluid dynamics.
• Demonstrate understanding of classical electricity and magnetism.
• Demonstrate understanding of quantum mechanics, nuclear physics, optics and the special theory of relativity.

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 Units for the Major: 41

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

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: CHEM 1A, CHEM 1B.

**Political Science**

**Associate in Arts Degree in Political Science for Transfer**

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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate an understanding of the principles and problems of politics in the United States and globally.
- Demonstrate an understanding of the basic systems, theories, ideologies, and models of political analysis.
- Explore specialized fields of study, including international relations, comparative politics, and political philosophy and theory.

Please refer to Graduation Requirements for more information on transfer degree requirements

Course ID Title Units  
HIST 80 INTRODUCTION TO CONTEMPORARY AFRICA 3  
HIST 81 AFRICAN AMERICAN HISTORY 3  
SOC 1 INTRODUCTION TO SOCIOLOGY 3  
WS 10 INTRODUCTION TO WOMEN’S STUDIES 3  
ANTH 2 CULTURAL ANTHROPOLOGY 3  
Total Units for the Major: 18

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

**Political Science**

**Associate in Arts 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.

Program Student Learning Outcomes
Students who complete this program will be able to:

- Demonstrate an understanding of the principles and problems of politics in the United States and globally.
- Demonstrate an understanding of the basic systems, theories, ideologies, and models of political analysis.
- Explore specialized fields of study, including international relations, comparative politics, and political philosophy and theory.

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 Units for the Major: 18

Restricted Electives:
ECON 2*, 4*, 11; HIST 16, 17; MATH 10*, PS 10, 11, 80, SOC 1.

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

**Associate in Arts Degree in Psychology for Transfer**

The curriculum in the Psychology program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Psychology for Transfer by providing the necessary breadth in the field, an introduction to the methods used, and the ability to complete both major preparatory coursework for psychology along with courses required for general education. Students who complete the Associate in Arts in Psychology for Transfer receive priority admission to the California State University System, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is...
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 Appraiser.

REAL ESTATE APPRAISAL LICENSE and/or CERTIFICATE: Please contact the California Office of Real Estate Appraisers.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Meet their career preparation goals as well as qualify for a state licensing exam for State Real Estate Appraiser.
- Meet personal or consumer education goals. (Examples: Students will indicate better preparation for making home purchase or sale decisions; students will indicate better preparation for completing real estate finance transactions.)
- Evaluate their professional improvement objectives as having been met. (Examples: Students will indicate that they will be able to improve their job performance or that they are more qualified for either a hierarchical or lateral career move.)
- Demonstrate mastery of the skills necessary to become a State Real Estate Appraiser.

**Course ID** | **Title** | **Units**
---|---|---
RE 170 | REAL ESTATE PRINCIPLES | 3
RE 176A | REAL ESTATE APPRAISAL I | 3
RE 176B | REAL ESTATE APPRAISAL II | 3
RE 176C | REAL ESTATE APPRAISAL III | 3
RE 200 | UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP) | 1.5
*Select from Specialty Courses*

**Total Units for the Certificate:** 19.5

**Specialty Courses:**

- **RE 174** | LEGAL ASPECTS OF REAL ESTATE | 3
- **RE 175** | REAL ESTATE FINANCE | 3
- **RE 178** | REAL ESTATE ECONOMICS | 3
- *Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.*
RE 176B  REAL ESTATE APPRAISAL II       3
RE 176C  REAL ESTATE APPRAISAL III      3
RE 200   UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP) 1.5

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

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• Evaluate their professional improvement objectives as having been met. (Examples: Students will indicate that they will be able to improve their job performance or that they are more qualified for either a hierarchical or lateral career move.)
• Demonstrate mastery of the skills necessary to become a Real Estate Salesperson or Broker.

Restricted Electives:

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<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>RE 176B</td>
<td>REAL ESTATE APPRAISAL II</td>
<td>3</td>
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<tr>
<td>RE 190</td>
<td>ESCROW</td>
<td>3</td>
</tr>
<tr>
<td>RE 195</td>
<td>PROPERTY MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>RE 280</td>
<td>MORTGAGE LOAN BROKERING AND LENDING</td>
<td>3</td>
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Specialty Courses:

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<th>Course ID</th>
<th>Title</th>
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<tbody>
<tr>
<td>BUS 137</td>
<td>PROFESSIONAL SELLING FUNDAMENTALS</td>
<td>3</td>
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<tr>
<td>RE 202</td>
<td>COMPUTER APPLICATIONS IN REAL ESTATE</td>
<td>3</td>
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<tr>
<td>RE 250</td>
<td>REAL ESTATE LICENSE PREPARATION</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Real Estate Sales/Broker

Associate in Science Degree 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, exchange, and taxation.

REAL ESTATE SALEPERSON LICENSE: RE 170, RE 172, and one additional elective must be completed before enrolling for the State exam. Electives list: BUS 12, RE 174, RE 175, RE 176A, RE 178, RE 190, RE 195, RE 280. Please check with the California Department of Real Estate for any changes.

REAL ESTATE BROKER LICENSE: Five courses are required: RE 172, RE 174, RE 175, RE 176A, and RE 178. In addition, three more courses must be taken from the following list: BUS 12, RE 170, RE 176B*, RE 190, RE 195*, RE 280. Please check with the California Department of Real Estate for any changes. The 30-unit Certificate meets the Broker License examination course requirements.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Meet their career preparation goals as well as qualify for a state licensing exam to become a Real Estate Salesperson or Broker.
• Meet personal or consumer education goals. (Examples: Students will indicate better preparation for making home purchase or sale decisions; students will indicate better preparation for completing real estate finance transactions.)
• Evaluate their professional improvement objectives as having been met. (Examples: Students will indicate that they will be able to improve their job performance or that they are more qualified for either a hierarchical or lateral career move.)
• Demonstrate mastery of the skills necessary to become a Real Estate Salesperson or Broker.

Restricted Electives:

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</tr>
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</table>

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

Associate in Science Degree Program

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees

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.

Suggested coursework not required for the major: ACCT 214; BUS 12, BUS 120, BUS 125, BUS 135; CM 121A; ECON 2, ECON 4; RE 176B, RE 195.

Social Sciences

Associate in Arts 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.

Program Student Learning Outcomes

Students who complete this program will be able to:

• Identify and apply methods, such as observation, hypothesis development, experimentation, evaluation of evidence, or measurement and data collection, used by social scientists to study human behavior.
• Identify and analyze theories explaining the individual, social, historical, political, or economic activities of men and women research and analyze topics from an interdisciplinary perspective.
• Integrate various social-scientific perspectives into the understanding of the subject matter.
• Develop a personal interpretation about issues and matters under study.

Select twelve units within a single area of emphasis which include only courses applicable to the major as noted below.

Areas of Emphasis

<table>
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<tr>
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<td>GIS 1</td>
<td>REAL ESTATE ECONOMICS</td>
<td>3</td>
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<tr>
<td>PSYC 1</td>
<td>REAL ESTATE LICENSING</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1</td>
<td>REAL ESTATE LICENSING</td>
<td>3</td>
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</tbody>
</table>
Students who complete this program will be able to:

Program Student Learning Outcomes
- Identify the current goals of sociology.
- Compare and contrast the three main sociological theories in sociology.
- Apply social theories to analyze current or historical topics or events.
- Differentiate social research and social research methods from other research models.
- Evaluate current social research.
- Describe the role that culture plays in affecting group as well as individual behaviors.
- Differentiate between Sociology and the other social sciences.
- Define and apply the sociological imagination/sociological perspective.
- Identify and apply specific sociological terms and concepts.
- Explain how various social locations such as class, race, gender, age and sexuality are vital to the study of sociology and apply them to specific sociological topics.
- Identify specific social problems and their cause-effect patterns.
- Critically evaluate the proposed ways to alleviate the major social problems facing society today.
- Identify and analyze social change and the impact on society.
- Examine and analyze institutional influences on individuals, groups, and society.
- Identify and evaluate community support services and agencies.

Select 6 additional units in a second area of emphasis as listed above

Total Units for the Major: 18

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

Associate in Arts Degree in Sociology for Transfer

The curriculum in the Associate in Arts in Sociology for Transfer 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 promotion.

Please refer to Graduation Requirements for more information on transfer degree requirements

Program Student Learning Outcomes
Students who complete this program will be able to:
- Define and apply the sociological imagination/sociological perspective.
- Identify and apply specific sociological terms and concepts.
- Explain how various social locations such as class, race, gender, age and sexuality are vital to the study of sociology and apply them to specific sociological topics.
- Identify specific social problems and their cause-effect patterns.
- Critically evaluate the proposed ways to alleviate the major social problems facing society today.
- Identify and analyze social change and the impact on society.
- Examine and analyze institutional influences on individuals, groups, and society.
- Identify and evaluate community support services and agencies.

Select one of the following courses or any of the courses not selected above (3 Units)
- ANTH 2 CULTURAL ANTHROPOLOGY
- ECON 2* PRINCIPLES OF ECONOMICS (MACRO)
- ECON 4* PRINCIPLES (MICRO)
- PHIL 12* INTRODUCTION TO LOGIC
- PS 1 AMERICAN GOVERNMENT
- PSYC 1 INTRODUCTION TO PSYCHOLOGY
- PSYC 2* RESEARCH METHODS IN PSYCHOLOGY
- SOC 6 INTRODUCTION TO ASIAN CULTURES IN THE UNITED STATES
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY
- SOC 125* SOCILOGY OF AGING
- SOC 126* DEATH AND DYING
- SOC 180 INTRODUCTION TO GERONTOLOGY

Total Units for the Major: 18

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

Theatre Arts

Associate in Arts Degree in Theatre Arts for Transfer

The Associate in Arts in Theatre Arts for Transfer degree will provide the student a broad introduction to making theatre. This degree is designed for the student with an interest in pursuing theatre as a profession who has not yet decided where to specialize. As such the student will receive a broad overview of the many aspects of theatre, including performance, design, theatre history, lighting, costumes, and stagecraft. Students who complete the Associate in Arts in Theatre Arts for transfer degree receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Please refer to Graduation Requirements for more information on transfer degree requirements

Program Student Learning Outcomes
Students who complete this program will be able to:
- Recognize standard practices of ensemble playing in a rehearsal/performance environment.
- Compare and analyze the theories and techniques of acting from a historical perspective.
- Analyze texts and scripts as they pertain to performance.
- Demonstrate skill for technical aspects of acting, including physical, vocal, imaginative, analytical and emotional elements.
- Compare and contrast theatrical periods and styles in terms of acting, directing, playwriting, and technical elements.
- Apply imagination and character analysis to identify and describe the personality and motivations of a given character.
- Apply technical processes, including lighting, set, costume, and/or stage make-up design, as they pertain to a given dramatic script.

Select 3-4 units Rehearsal and Performance Production; courses may be repeated:
- TA 15* REHEARSAL AND PERFORMANCE: DRAMA
- TA 16* REHEARSAL AND PERFORMANCE: COMEDY
- TA 17* REHEARSAL AND PERFORMANCE: MIXED GENRES
- TA 18* REHEARSAL AND PERFORMANCE: DANCE

Required Courses: (9 - 10 units)
- TA 20 THEATRE APPRECIATION
- TA 1 FUNDAMENTALS OF ACTING

Course ID Title Units
SOC 1 INTRODUCTION TO SOCIOLOGY 3
SOC 2 SOCIAL PROBLEMS 3
MATH 10* INTRODUCTION TO STATISTICS 3

Required Courses: (9 - 10 units)
- TA 20 THEATRE APPRECIATION 3
- TA 1 FUNDAMENTALS OF ACTING 3
for entry-level positions in the professional entertainment industry.

A comprehensive and intensive two-year program offers students 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.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate preparation for entry level positions in the professional entertainment industry.
- Demonstrate technical skills in a wide variety of applications related to theatrical production.
- Demonstrate competence in the production of live events.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 142</td>
<td>THEATRE PRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>List A: Select three courses (9 units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA 2*</td>
<td>SCENE STUDY I</td>
<td>3</td>
</tr>
<tr>
<td>ETT 41</td>
<td>STAGE LIGHTING</td>
<td>3</td>
</tr>
<tr>
<td>ETT 42</td>
<td>COSTUME DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ETT 40</td>
<td>STAGECRAFT</td>
<td>4</td>
</tr>
<tr>
<td>TA 15**</td>
<td>REHEARSAL AND PERFORMANCE: DRAMA</td>
<td>2</td>
</tr>
<tr>
<td>TA 16**</td>
<td>REHEARSAL AND PERFORMANCE: COMEDY</td>
<td>2</td>
</tr>
<tr>
<td>TA 17**</td>
<td>REHEARSAL AND PERFORMANCE: MIXED GENRES</td>
<td>2</td>
</tr>
<tr>
<td>TA 18</td>
<td>REHEARSAL AND PERFORMANCE: DANCE</td>
<td>1</td>
</tr>
<tr>
<td>TA 113**</td>
<td>REHEARSAL AND PERFORMANCE: CHILDREN'S THEATRE</td>
<td>2</td>
</tr>
<tr>
<td>ETT 142**</td>
<td>THEATRE PRODUCTION</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Units for the Major: 18-19**

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

**A maximum of three units may be taken in Rehearsal and Performance Production (TA 15, TA 16, TA 17, TA 18, TA 113) OR Technical Theatre in Production (ETT 142) to be counted toward List A requirements. Courses taken to fulfill core requirements may not be taken again to meet List A requirements.

### 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.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 41*</td>
<td>LIGHTING DESIGN FUNDAMENTALS</td>
<td>3</td>
</tr>
<tr>
<td>ETT 42</td>
<td>COSTUME DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ETT 101*</td>
<td>FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE</td>
<td>3</td>
</tr>
<tr>
<td>ETT 130</td>
<td>THEATRE MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td>ETT 144</td>
<td>THEATRE SCENERY PAINTING</td>
<td>2</td>
</tr>
<tr>
<td>ETT 201</td>
<td>ENTERTAINMENT COMPUTER AIDED DRAFTING</td>
<td>3</td>
</tr>
<tr>
<td>ETT 246*</td>
<td>THEATRE AUDIO TECHNIQUES</td>
<td>3</td>
</tr>
<tr>
<td>MUS 118/</td>
<td>CTVR 118</td>
<td>SOUND RECORDING</td>
</tr>
<tr>
<td>TA 102</td>
<td>STAGE MANAGEMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

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

### Theatre Arts Performance and Acting Associate in Arts 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.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Recognize standard practices of ensemble playing in a rehearsal/performance environment
- Compare and analyze the theories and techniques of acting from a historical perspective
- Analyze texts and scripts as they pertain to performance
- Demonstrate skill for technical aspects of acting, including physical, vocal, imaginative, analytical and emotional elements
- Compare and contrast theatrical periods and styles in terms of acting, directing, playwriting, and technical elements
- Apply imagination and character analysis to identify and describe the personality and motivations of a given character
- Apply technical processes, including lighting, set, costume, and/or stage make-up design, as they pertain to a given dramatic script

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 40</td>
<td>STAGECRAFT</td>
<td>4</td>
</tr>
<tr>
<td>TA 1</td>
<td>FUNDAMENTALS OF ACTING</td>
<td>3</td>
</tr>
<tr>
<td>TA 2*</td>
<td>SCENE STUDY I</td>
<td>3</td>
</tr>
<tr>
<td>TA 11</td>
<td>STAGE MOVEMENT</td>
<td>3</td>
</tr>
<tr>
<td>TA 43</td>
<td>STAGE MAKE-UP</td>
<td>1</td>
</tr>
<tr>
<td>Select from: Appreciation and History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select from Rehearsal and Performance</td>
<td>0.5-2</td>
<td></td>
</tr>
<tr>
<td>Select from Acting</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select from Restricted Electives</td>
<td>3</td>
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</table>

**Total Units for the Major: 26.5-28**

### Appreciation and History

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 25</td>
<td>THEATRE HISTORY: PRIMITIVE TO RENAISSANCE</td>
<td>3</td>
</tr>
<tr>
<td>TA 26</td>
<td>THEATRE HISTORY: RENAISSANCE TO CONTEMPORARY</td>
<td>3</td>
</tr>
</tbody>
</table>

### Rehearsal and Performance

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 142</td>
<td>THEATRE PRODUCTION</td>
<td>0.5-1</td>
</tr>
<tr>
<td>TA 15</td>
<td>REHEARSAL AND PERFORMANCE: DRAMA</td>
<td>1</td>
</tr>
<tr>
<td>TA 16</td>
<td>REHEARSAL AND PERFORMANCE: COMEDY</td>
<td>1</td>
</tr>
<tr>
<td>TA 17</td>
<td>REHEARSAL AND PERFORMANCE: MIXED GENRES</td>
<td>1</td>
</tr>
<tr>
<td>TA 18</td>
<td>REHEARSAL AND PERFORMANCE: DANCE</td>
<td>1</td>
</tr>
<tr>
<td>TA 19</td>
<td>REHEARSAL AND PERFORMANCE: MUSICAL THEATRE</td>
<td>1</td>
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</tbody>
</table>

### Acting

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 20</td>
<td>ART APPRECIATION</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 3</td>
<td>THE HISTORY AND APPRECIATION OF AMERICAN CINEMA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 64</td>
<td>HISTORY OF DANCE</td>
<td>3</td>
</tr>
<tr>
<td>MUS 20</td>
<td>MUSICAL APPRECIATION</td>
<td>3</td>
</tr>
<tr>
<td>MUS 27</td>
<td>HISTORY OF JAZZ</td>
<td>3</td>
</tr>
<tr>
<td>MUS 28</td>
<td>HISTORY OF ROCK</td>
<td>3</td>
</tr>
<tr>
<td>TA 22</td>
<td>MUSICAL THEATRE HISTORY AND APPRECIATION</td>
<td>3</td>
</tr>
</tbody>
</table>
Students who complete this program will be able to:

Program Student Learning Outcomes
• Demonstrate skills for entry level positions in the professional entertainment industry; including theatre, theme parks, television, movies, corporate events, trade shows, sporting events, faith-based events, and all other forms of live entertainment. The program is designed to develop a solid foundation of skills so students can work closely with Designers, art directors and other professionals in the various areas that make up the Entertainment Industry as well as other industries that utilize the skills of a scenic artist. Students are required to participate as paint crew on the Department of Theatre Arts productions as well as other field work.

Restricted Electives:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 41</td>
<td>LIGHTING DESIGN FUNDAMENTALS</td>
<td>3</td>
</tr>
<tr>
<td>ETT 42</td>
<td>COSTUME DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ETT 45</td>
<td>SCENE DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ETT 101</td>
<td>FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE</td>
<td>3</td>
</tr>
<tr>
<td>TA 102</td>
<td>STAGE MANAGEMENT</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.


Theatre Arts Technical Theatre

Associate in Arts 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Demonstrate skills for entry level positions in the professional entertainment industry.
• Demonstrate the basic components of stagecraft.
• Demonstrate a variety of acting techniques.

ETT 240* is a non-transferable course required by the Theatre Arts Department for this degree.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 40</td>
<td>STAGECRAFT</td>
<td>4</td>
</tr>
<tr>
<td>ETT 100</td>
<td>APPLIED TECHNICAL THEATRE PRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td>ETT 142</td>
<td>THEATRE PRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>ETT 240</td>
<td>ADVANCED STAGECRAFT</td>
<td>3</td>
</tr>
<tr>
<td>TA 1</td>
<td>FUNDAMENTALS OF ACTING</td>
<td>3</td>
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<tr>
<td></td>
<td>Select from Appreciation &amp; History</td>
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<tr>
<td></td>
<td>Select from Restricted Electives</td>
<td>3-6</td>
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Total Units for the Major: 18-23

Appreciation and History:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 20</td>
<td>THEATRE APPRECIATION</td>
<td>3</td>
</tr>
<tr>
<td>TA 25</td>
<td>THEATRE HISTORY: PRIMITIVE TO RENAISSANCE</td>
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</tr>
</tbody>
</table>

Restricted Electives:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 41</td>
<td>STAGE LIGHTING</td>
<td>3</td>
</tr>
<tr>
<td>ETT 42</td>
<td>COSTUME DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ETT 45</td>
<td>SCENE DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>ETT 101</td>
<td>FUNDAMENTALS OF DESIGN AND</td>
<td></td>
</tr>
</tbody>
</table>

GRAPHICS FOR THEATRE 3

ETT 104  COSTUME CRAFTS 3
ETT 130  THEATRE MANAGEMENT 3
ETT 144  THEATRE SCENERY PAINTING 2
TA 102  Stage Management 3

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

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 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Scenic Art and Painting

Occupational Skills Award
The Entertainment and Theatre Technology, Scenic Artist and Painting Occupational Skills Award is designed to prepare the student for employment as a scenic artist and painter in the entertainment industry, including theatre, theme parks, television, movies, corporate events, trade shows, sporting events, faith-based events, and all other forms of live entertainment. The program is designed to develop a solid foundation of skills so students can work closely with Designers, art directors and other professionals in the various areas that make up the Entertainment Industry as well as other industries that utilize the skills of a scenic artist. Students are required to participate as paint crew on the Department of Theatre Arts productions as well as other field work.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETT 142</td>
<td>THEATRE PRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>ETT 144*</td>
<td>THEATRE SCENERY PAINTING</td>
<td>2</td>
</tr>
<tr>
<td>ETT 244*</td>
<td>ADVANCED SCENERY PAINTING</td>
<td>3</td>
</tr>
<tr>
<td>ETT 242*</td>
<td>STYLES OF PAINT FOR THE ENTERTAINMENT INDUSTRY</td>
<td>3</td>
</tr>
<tr>
<td>CWE 180</td>
<td>CO-OP-ED ENTERTAINMENT AND THEATRE TECHNOLOGY</td>
<td>2</td>
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</tbody>
</table>

Total Units for the Award: 12

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

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.

Program Student Learning Outcomes
Students who complete this program will be able to:
• Support their choice of cruise itineraries presented in a written form based on the standards of the industry, use a pre-determined criteria checklist and compare cruise features and benefits, both tangible and intangible, as well as price, value and individual preference.
• Build a Passenger Name Record (PNR) in the airline computer training strand of the program.
• Identify geographic locations.
Women's and Gender Studies
Associate in Arts 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Articulate an interdisciplinary understanding of gender and gender dynamics.
- Explain diversity and difference gender, race, class, sexual orientation, nationality, religion, and ability.
- Analyze social problems as they relate to gender and inequality.
- Evaluate various career options related to women's and gender studies.

Course ID   Title                                      Units
Core Requirement
WS 10  INTRODUCTION TO WOMEN'S STUDIES          3

Majors must also select a minimum of 17 units from the following courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 21</td>
<td>WOMEN, GENDER, AND CULTURE - CROSS-CULTURAL PERSPECTIVES</td>
<td>3</td>
</tr>
<tr>
<td>ART 21</td>
<td>WOMEN AND ART</td>
<td>3</td>
</tr>
<tr>
<td>CTVR 9</td>
<td>WOMEN IN CINEMA AND TELEVISION</td>
<td>3</td>
</tr>
<tr>
<td>HIST 21</td>
<td>WOMEN IN UNITED STATES HISTORY - A MULTICULTURAL PERSPECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 3</td>
<td>WOMEN'S HEALTH ISSUES</td>
<td>3</td>
</tr>
<tr>
<td>MUS 29</td>
<td>WOMEN, MUSIC, AND SOCIETY</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 21</td>
<td>THE PSYCHOLOGY OF WOMEN</td>
<td>3</td>
</tr>
<tr>
<td>SOC 21</td>
<td>WOMEN IN CONTEMPORARY SOCIETY</td>
<td>3</td>
</tr>
<tr>
<td>SP 8</td>
<td>GENDER COMMUNICATION</td>
<td>3</td>
</tr>
<tr>
<td>WS 120</td>
<td>WOMEN AND CAREERS</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units for the Major: 20

Associate in Arts Degree
Complete a minimum of 60 units including the total number of units described above and the General Education requirements with an overall GPA of 2.0 to qualify for the Associate in Arts degree. A minimum of 12 must be completed at Saddleback College.

General Education Requirements for Associate Degrees
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.

Suggested coursework not required for the major: BUS 1, BUS 102, BUS 125, BUS 135, BUS 137, BUS 138; CIM 121A, CIM 121B.
California Four-Year Public Universities

University of California* – 10 Campuses
1. University of California, Berkeley (1868) • (510) 642-6000
   Semester Enrollment 36,204 • www.berkeley.edu
2. University of California, Davis (1905) • (530) 752-1011
   Quarter Enrollment 35,188 • www.ucdavis.edu
3. University of California, Irvine (1965) • (949) 824-5011
   Quarter Enrollment 39,390 • wwwuci.edu
4. University of California, Los Angeles (1919) • (310) 209-4321
   Quarter Enrollment 43,301 • www.ucla.edu
5. University of California, Merced (2004) • (209) 228-4400
   Semester Enrollment 6,288 • www.ucmerced.edu
6. University of California, Riverside (1954) • (951) 827-1012
   Quarter Enrollment 21,899 • www.ucr.edu
7. University of California, San Diego (1960) • (858) 534-2230
   Quarter Enrollment 31,802 • www.ucsd.edu
8. University of California, Santa Barbara (1944) • (805) 893-8000
   Quarter Enrollment 23,447 • www.ucsb.edu
9. University of California, Santa Cruz (1965) • (831) 459-0111
   Quarter Enrollment 17,888 • 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

California State University* – 23 Campuses
1. California Maritime Academy (1929) • (707) 654-1000
   Semester Enrollment 1,148 • www.csu.edu
2. California Polytechnic State University, San Luis Obispo (1901)
   (805) 756-1111 • Quarter Enrollment 20,644 • www.cpoly.edu
3. California State Polytechnic University, Pomona (1938)
   (909) 687-7659 • Quarter Enrollment 23,917 • www.cppomona.edu
4. California State University, Bakersfield (1965) • (661) 654-2011
   Quarter Enrollment 8,720 • www.csu.edu
5. California State University, Channel Islands (2002) • (805) 437-8400
   Semester Enrollment 6,186 • www.csuci.edu
6. California State University, Chico (1887) • (530) 898-4636
   Semester Enrollment 17,287 • www.csuchico.edu
7. California State University, Dominguez Hills (1963) • (310) 243-3300
   Semester Enrollment 14,670 • www.csudh.edu
8. California State University, East Bay (1967) (formerly CSU Hayward)
   (510) 885-3000 • Quarter Enrollment 18,028 • www.csueastbay.edu
9. California State University, Fresno (1911) • (559) 278-4240
   Semester Enrollment 23,720 • www.csufresno.edu
10. California State University, Fullerton (1957) • (657) 278-2011
    Semester Enrollment 38,848 • www.fullerton.edu
11. California State University, Long Beach (1949) • (562) 988-4111
    Semester Enrollment 37,446 • www.csulb.edu
12. California State University, Los Angeles (1947) • (323) 343-3000
    Quarter Enrollment 27,801 • www.calstatela.edu
13. California State University, Monterey Bay (1995) • (831) 582-3330
    Semester Enrollment 7,182 • www.csuomu.edu
14. California State University, Northridge (1955) • (818) 677-1200
    Semester Enrollment 41,566 • www.csun.edu
15. California State University, Sacramento (1947) • (916) 278-6011
    Semester Enrollment 30,241 • www.csus.edu
16. California State University, San Bernadino (1960) • (909) 537-5000
    Quarter Enrollment 20,924 • www.csusb.edu
17. California State University, San Marcos (1969) • (760) 750-4000
    Semester Enrollment 12,164 • www.csums.edu
18. California State University, Stanislaus (1957) • (209) 667-3924
    Semester Enrollment 8,517 • www.csustan.edu
19. Humboldt State University (1913) • (707) 826-3011
    Semester Enrollment 8,390 • www.humboldt.edu
20. San Diego State University (1967) • (619) 594-5000
    Semester Enrollment 34,234 • www.sdsu.edu
21. San Francisco State University (1949) • (415) 338-1111
    Semester Enrollment 30,236 • www.sfsu.edu
22. San Jose State University (1897) • (408) 924-1000
    Semester Enrollment 32,710 • www.sjsu.edu
23. Sonoma State University (1960) • (707) 664-2800
    Semester Enrollment 8,120 • www.sonomastate.edu

* Enrollment figures subject to change
Articulation/Transfer Patterns

Transfer Planning

1. Transfer students, that is, students planning to enter a university or four-year college after attending Saddleback College, should take note of the following recommendations:
   - 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. Avoid taking 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 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.**

2. 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.

3. Catalogs for the University of California and the California State University are available in the Career Center. The Career Center maintains catalogs from other institutions as well.

4. **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.

Requirements for the Associate in Arts for Transfer or Associate in Science for Transfer

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated “high-unit” major).

This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

**At the time of catalog publication, a student may earn an Associate Degree for Transfer in Anthropology, Art History, Business Administration, Communication Studies, Early Childhood Education, Economics, Elementary Teacher Education, English, Geography, Geology, History, Journalism, Kinesiology, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Spanish, Studio Arts and Theatre Arts.** Additional majors are being developed. Please see a counselor and www.saddleback.edu/articulation for more information.

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in the Certificate and Degree section of the catalog. All courses in the major must be completed with a grade of C or better or a “P” (pass) designation may be used instead of a letter grade, but not all transfer institutions will accept courses with a “P.”

Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
The following information is subject to change

The California State University
(Refer to the California CSU/UC map)

*Application Filing Periods
(Applications first accepted):

<table>
<thead>
<tr>
<th>Semester or Quarter</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Semester or Quarter</td>
<td>February 1-28</td>
</tr>
<tr>
<td>Fall Semester or Quarter</td>
<td>October 1 - November 30</td>
</tr>
<tr>
<td>Winter Quarter</td>
<td>June 1 - June 30</td>
</tr>
<tr>
<td>Spring Semester or Quarter</td>
<td>August 1 - August 30</td>
</tr>
</tbody>
</table>

*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 Intersegmental General Education Transfer Curriculum).

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 2017 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 has been completed at Saddleback College.

AREA A: ENGLISH LANGUAGE 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 or ENGLISH 1AH
**A3**  Critical Thinking - One course from the following:  ENG 1B, 1BH, 70 (formerly 170); PHIL 12, SP 2, 3

AREA B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING
At least 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.)

**AREA B: SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING -**

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

<table>
<thead>
<tr>
<th>ASTR 1*</th>
<th>21, 25*</th>
<th>45, 145*</th>
<th>CHEM 1A*, 1B*, 2*, 2A*, 2B*, 3*, 8*, 12A*, 12B*, 13, 20*, 108*, 120*</th>
<th>GEOG 1 or 1H, 1 and 11*, 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1A*, 1B*, 2A*, 2B*, [^F91], 3A*, 4A*, 4B*, [^F91], 4C*, [^S07], 20*, 21*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Retroactive

**B2**  Biological Science

<table>
<thead>
<tr>
<th>ANTH 1, 1 and 11*, 10A* (formerly 110A)</th>
<th>HORT 20*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 3A*, 1A* prior to F03, 5* prior to F94, 3B* (1B* prior to F03, 2* prior to F94), 3C* [^S07], 4A*, 4B*, 6A* (prior to F95), 11*, 12*, 15*, 16*, 18*, 19*, 20*, 22 (formerly 41), 24, 28 [^F14], 20, 31*, 40, 43, 50, 113* [^F03]</td>
<td>MS 3*</td>
</tr>
<tr>
<td>ENV 18*, 19*, 24* #24*</td>
<td></td>
</tr>
<tr>
<td>PSYC 3* [^F10]</td>
<td></td>
</tr>
</tbody>
</table>

#Lab designation beginning Fall 2007
Underlined courses are no longer offered at Saddleback College

**B3**  Laboratory Course

One science course MUST have a laboratory

* Indicates a laboratory course

**B4**  Mathematics

Courses applicable to Area B4 must be completed with a grade of “C” or better.

- MATH 2, 3A, 3AH, 3B, 3C, 4B, 5, 6A, 6B, 7, 8, 9, 10, 11, 12, 24, 26, 112, 122, 124, 128
- PSYC 44 [^F12]

Underlined courses are no longer offered at Saddleback College

**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

<table>
<thead>
<tr>
<th>ARCH 12 (formerly 112)</th>
<th>GD 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1, 4</td>
<td></td>
</tr>
<tr>
<td>ARTH 20, 21, 22, 23, 24, 25, 26, 27, 28, 29</td>
<td></td>
</tr>
<tr>
<td>CTVR 2, 3, (formerly CA 30), 5, 7(formerly CA 27), 9 (formerly CA 29)</td>
<td></td>
</tr>
<tr>
<td>DANC 64 (formerly PE/TA 64)</td>
<td></td>
</tr>
<tr>
<td>FA 20, 27</td>
<td></td>
</tr>
<tr>
<td>FASH 114 [^F93] (formerly CT 144)</td>
<td></td>
</tr>
</tbody>
</table>

**C2**  Humanities

<table>
<thead>
<tr>
<th>ARAB 1 [^F90], 1A [^F90], 1B [^F90], 2 [^F90], 3 [^S07], 4 [^S07], 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHI 1 [^F89], 1A [^F89], 1B [^F89], 2 [^F89], 3 [^F07], 4 [^F07], 21</td>
</tr>
</tbody>
</table>

KOR 1 [^F90], 1A, 1B, 2 [^F90], 3, 4, 21 [^F96]

LAT 1 [^F90], 1A [^F90], 1B [^F90], 2 [^F90]
Certification of CSU General Education Requirements

AREA D: SOCIAL SCIENCES

At least three courses totaling a minimum of nine units are required. Courses from two different subjects required.

ANTH 2, 4, 3, 5 [F08], 6, 7 [S07], 8, 9, 10, 13 [S07], 14 [F03], 15 [F13], 17 [F13], ANTH 20/SP 20 (formerly 109), 21

CD 7++ (formerly 107), 15 (formerly 105)

CTVR 1/RN 1

ECON 2 or 2H, 4 (formerly 1) or 4H, ECON/ENV 6, ECON 11 (prior to F09)/PS 20 (MGT 100 prior to F86)

ENV 1, ENV/ECON 6, 20 [F09], 21, ENV/SOC 22, 35, 36 [F96]

ES (formerly CCS) 1, 2, 3, 10

GEOG 2 or 2H, 3, 38

**Retroactive F91

Underlined courses are no longer offered at Saddleback College

† 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 or 1H AND one U.S. History course 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 LONG UNDERSTANDING AND SELF-DEVELOPMENT

(3 are required to complete Area E. A maximum of 2 of DANC/KNES/KNEA/PE activity courses are permitted):

BUS 116 [F02]

CD 7‡ (formerly 107)

COUN 140, 145, 150, 151, 160, 162, 163, 165

DANC The following courses are accepted beginning F15 unless indicated otherwise: 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 62 (formerly PE/TA 63) (prior to F12)

FASH 141 (formerly CFR/FCS 140)

FCS 115, 140 (prior to F07), 142 [F97]

FN 50, 64

† Course listed in more than one area, but shall not be certified in more than one area.

Underlined courses are no longer offered at Saddleback College.
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.

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: January 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 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. Refer to www.assist.org for the UC transferable course list for specific information regarding limitations on credit for transfer.

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 for more information.

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 2016-2017 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, CTVR 3[F’94] denotes that this course must have been completed in the Fall 1994 semester or later to receive IGETC credit. Courses and credit earned through alternative credit options may apply toward meeting eligibility requirements.

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
1. English Composition: ENG 1A or 1AH
2. Critical Thinking-Composition: ENG 1B-Completed Summer 1992 or after, 1BH ENG 70.
   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.
3. Oral communication: SP 1 (required for CSU transfers only)

AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING
(1 course required):
Math 2**, 3**, 3AH, 3B, 3C (formerly 4a), 4B, 6A, 6B, 7**, 8**, 9, 10, 11**, 24, 26
PSYC 44 [F12]

AREA 3 - ARTS and HUMANITIES
(At least three courses, nine semester units)
Select one course from the Arts, and one from the Humanities, and a third from either area.
A. Arts courses:
   ARCH 12 [S07]             FA 20 [F94], 27
   ART 4
   ARTH 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 (formerly ART 20, 21, 22, 23, 24, 25, 26, 27, 28, 29)
   MUS 20, 21 [F94], 23 [F94], 24, 25, 26, 27 [F94], 28 [F94], 29 [F94]
   CTVR 2, 3 (formerly CA 30) [F94], 5, 7, 9 (formerly CA 29) [S07]
   PHOT 25 [F94]
   DANC 64 (formerly PE/TA 64) [F96]
   TA 20, 21, 25, 26

B. Humanities courses:
   ARAB 2 [F10], 3 [S07], 4 [S07], 21 [*F95]
   CHI 2 [F10], 3 [F07], 4 [F07], 21 [F95]
   ENG 15A, 15B, 17A, 17B, 18, 19, 20, 21A, 21B, 21C [F95], 21D [F95], 21E [F95], 23A [F95], 23B [F95], 24 [F95], 25, 27A or 27AH, 27B, 27C, 27D, 27E, 27F, 31[F02], 35 [F92], 44 [F95], 46, 47, 50, 52 [F97], 54 [F95]
   PHIL 1, 2 [F10], 3, 4, 5 (formerly 104) [F15], 10, 14, 15; PS 61+ (prior to F95), 75+*^21
   HEBR 2 [F10], 3 [F09], 4 [F09], 21 [F95]
   HEIF 2 [F10], 3 [F09], 4 [F09], 21 [F95]
   HIST 4, 5, 18, 30*, 40*, 41*, 60, 61*+ (prior to F95) 70*, 71*, 72* [F01], 75*
   HUM 1, 2 [F12], 3, 4, 10A, 10B, 21 [F94], 22 [F94]
   IDS 1 [F94], 2 [F94]
   PORT 2, 3, 4, 21 [F95]

*Reinstated
**Underlined courses are no longer offered at Saddleback College
†Cross-referenced course

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 [F03], 4 [S07], 5 [F08], 6 [F03], 7 [S07], 8 [F02], 9, 10 [F98], 13 [S07], 14 [F03], 15, 20*+ [F98], 21 [F92]
   CD 7 (formerly CDES 7), CD 15 (formerly CDES 15)
   JRN 1* [S07]
   CTVR 1* (formerly CA 1) [S07]
   PS 1 or 1H, 2, 4, 10 [S07], 11* [F00], 12, 14, 21 [F98], 61*+ [F92], 75*+, 80* [F00]
   ECON 2 or 2H, 4 (formerly 1 or 4H, 6* [F96], 11* [F00]; 20** [F94]
   PSYC 1 or 1H, 2 or 2H, 3* (prior to F12), 4, 5 [S06], 7, 16 [S07], 21 [F92], 30*, 33 [S07], 37 [S07]
   ENV 1 [F01], 6* [F96]
   SOC 1, 2, 4, 5, 6 [F96], 10 [S05], 15 [F07], 20*, 21 [F92], 25 [S06], 30*
### 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:** Lab courses

**1. Physical Science Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 1A*</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1A*</td>
<td>4</td>
</tr>
<tr>
<td>ENV 23*</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 1 or 1H</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1A*</td>
<td>4</td>
</tr>
<tr>
<td>MS 4*</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1A*</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3*</td>
<td>4</td>
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</tbody>
</table>

**2. Biological Science courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1</td>
<td>4</td>
</tr>
<tr>
<td>BIO 2A*</td>
<td>4</td>
</tr>
<tr>
<td>ENV 18*</td>
<td>4</td>
</tr>
<tr>
<td>HORT 200*</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3*</td>
<td>4</td>
</tr>
</tbody>
</table>

**3. **Cross-referenced course**

### 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 [F02], 2 [F05], 3 [F07], 4 [F07];
- CHI 1, 2 [F05], 3 [F07], 4 [F07];
- FR 1, 2 [F05], 3 [F05], 4 [F05];
- GER 1, 1A & 1B, 2 [F05], 3 [F05], 4 [F05];
- HEBR 1, 1A & 1B, 2 [F05], 3 [F09], 4 [F09];
- ITA 1, 2 [F05], 3 [F05], 4 [F05];
- JA 1, 1A & 1B, 2 [F05], 3 [F07], 4 [F07];
- KOR 1 [F09], 2 [F09], 3 [F09], 4 [F09];
- PORT 1 [F12], 2 [F12], 3, 4 [F98];
- PSRN 1, 2 [F05], 3 [F05], 4 [F05];
- SPAN 1, 2 [F05], 3 [F05], 4 [F05], 6 [F05];
- SL 1 (formerly 32 prior to F98), 2 [F05], 3 (formerly 34) [F05], 4 (formerly 35) [F05];
- 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.

Underlined courses are no longer offered at Saddleback College

### U.S. HISTORY, CONSTITUTION, AMERICAN DEALS (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* or 1H 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.
The following websites provide detailed information on the transfer process to the University of California and California State University systems.

**www.assist.org**
ASSIST 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. It is recommended that students contact a Saddleback College Counselor for more detailed information on utilizing ASSIST information in their academic plan.

**www.csumentor.edu**
The official Cal State University site contains a wealth of information about all 23 CSU campuses including academic requirements, financial aid and the online admissions application.

**admission.universityofcalifornia.edu**
University of California information and online application.

**www.californiacolleges.edu**
Developed in collaboration with the California State University (CSU) and University of California (UC) to allow students to obtain information about higher education opportunities in California.

## Independent California Colleges and Universities

There are over 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](http://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.

<table>
<thead>
<tr>
<th>Example Campus</th>
<th>CSU G.E.</th>
<th>(CSU)IGETC</th>
<th>(UC)IGETC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azusa Pacific Univ.</td>
<td></td>
<td>X+</td>
<td></td>
</tr>
<tr>
<td>Biola Univ.</td>
<td></td>
<td>X+</td>
<td></td>
</tr>
<tr>
<td>Chapman Univ.</td>
<td>X+</td>
<td>X+</td>
<td>X+</td>
</tr>
<tr>
<td>Concordia Univ.</td>
<td>X+</td>
<td>X+</td>
<td>X+</td>
</tr>
<tr>
<td>Dominican College San Rafael</td>
<td>X+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Golden Gate University</td>
<td>X+</td>
<td></td>
<td></td>
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<tr>
<td>Hope Int'l. Univ.</td>
<td>X*+</td>
<td>X+</td>
<td></td>
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<tr>
<td>Otis College - Art &amp; Design</td>
<td></td>
<td>X+</td>
<td></td>
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<tr>
<td>Univ. of the Pacific</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Univ. of Phoenix</td>
<td>X+</td>
<td>X+</td>
<td>X+</td>
</tr>
<tr>
<td>Univ. of San Francisco</td>
<td>X+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard University</td>
<td>X+</td>
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</tbody>
</table>

*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.
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 Point Averages (GPA) are computed on degree applicable courses numbered 1 through 299.

1-299: Courses intended for associate degrees, occupational skills awards, and transfer purposes.
1-99 Courses which are parallel to baccalaureate-level courses that generally transfer to both CSU and UC. 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. UC transferable courses do not necessarily apply toward major credit. Students should consult a counselor and/or visit www.assist.org for information about course articulation for a particular major.

100-199 Courses which are parallel to baccalaureate-level courses that generally transfer to CSU but not to the UC.

200-299 Courses that 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 provide 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 and personal development. These courses may occasionally carry transfer credit to four-year institutions, however, the receiving institution makes the determination whether to accept the course.

300-399 Basic skills courses. Courses in this range completed Fall 1988 and later are not applicable to associate degrees or certificates, nor do they carry transfer credit to four-year institutions. These courses do not count toward the 60-unit requirement for graduation and are not used in calculating students’ grade point averages for associate degrees or certificates. A state-imposed restriction limits students to taking no more than 30 units of basic skills courses.

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.

800-999 Courses which generally provide learning center hours that require concurrent enrollment in a designated course. These courses are traditionally offered in conjunction with English as a Second Language (ESL) and International Language courses to provide enhancement and practice skill in the associated course.

Emeritus Courses: Courses that are typically designed for older adults. These courses do not apply toward degrees or certificates and do not carry transfer credit to four-year institution

Prerequisites, Corequisites, Limitations, and Limitations on Enrollment are enforced as conditions of enrollment. Failure to comply with these stated requirements may result in a student being involuntarily dropped from a course in accordance with Title 5.

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. In accordance with Title 5 prerequisite courses must be completed with a satisfactory grade (defined as A, B, C, P, or CR in section 55023) in order to enroll in the course requiring the prerequisite. State laws require the enforcement of prerequisites therefore a student will be blocked from enrolling or dropped from a course if the student has not met the stated prerequisite. As of 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.

Corequisite means a condition of enrollment that requires a student to concurrently enroll in one course as a condition of enrollment in another course. Corequisites are enforced and a student will be blocked from enrolling in a course if they do not simultaneously enroll in its stated corequisite course.

Limitation on Enrollment means a condition of enrollment which limits how students qualify for a particular course or program. Limitations on enrollment include auditions, physical examination by a doctor, and/or admission to particular program. Limitations on enrollment are enforced and a student will be blocked from enrolling if the stated limitation has not been met.

Advisory or Recommended Preparation means a condition of enrollment that a student is advised, but not required, to meet prior to 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.

Coursework Standards and Expectations

In a lecture class, the preponderance of the student’s work is done outside of class — e.g., reading, working on assignments, writing papers, preparing for class, and/or performing other required homework or coursework. A typical three-unit lecture class requires at least six additional hours of student work per week.

In a laboratory class, the majority of the student’s work is done in class. A lab class may require additional hours of student work per week.

In a learning center, virtually all of the student’s work may be done in class.

In all cases, students carrying a full-time class load of 15 should expect average workloads of 45 hours per week, inclusive of time spent in class.

Repeatable Course Models
(Also see Course Repeatability and Repetition in the Registration and Academic Regulations sections of this catalog)

State regulations (Title 5, sections 55040-55045) restrict the number of times a student may enroll in a course within a
community college district. Most credit courses are designated as "non-repeatable" in accordance with Title 5 thereby limiting students to a single enrollment if the student receives a satisfactory grade (A, B, C, P, or CR) or an Incomplete; if a student received a substandard grade (D, F, or NP (NC)) in a non-repeatable course they may enroll in the course again to alleviate that substandard grade. Students are limited to a maximum of three enrollments in non-repeatable courses. Any enrollments beyond the student's initial enrollment are only permitted to alleviate a substandard grade; once a satisfactory grade has been earned the student will be ineligible to enroll in the course again. A student may request to have the substandard grade disregarded in the computation of their GPA by submitting a Request for Transcript Repeat Notation to the Office of Admissions and Records; see the Academic Regulations section of this catalog for more information.

For exceptions to these rules — including significant lapse of time, extenuating circumstances, legally mandated training, significant change in industry or licensure standards, and special classes for students with disabilities — see Repeatability and Repetition in the Academic Regulations section of this catalog.

Those courses that do allow for more than one enrollment are designated with an "R" code (R-A, R-E, R-I, or R-99) at the end of the course description as well as a number, which specifies the maximum number of times a student may enroll in a course. For example, "R-E-3" means that after the initial enrollment a student is permitted to enroll a maximum of three additional times. Students registering in a course not identified as repeatable or repeating a course more often than permissible will be withdrawn from the course. Once a student has taken a more advanced course they cannot go back and repeat a lower-level course.

Repeatable models are as follows:

**Model A (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.

**Model E (R-E):** A course with this designation has one course number and title but has a different syllabus each time it is offered. The course may be taken a specified number of times (not to exceed four) to afford development through supervised practice or group assignments.

**Model I (R-I):** These courses often have a number of versions with varying unit values. A student may repeat the course up to the maximum number of units as specified in the course description in the catalog.

**R-99:** Non-credit courses; these primarily include continuing education courses for older adults (Emeritus Institute).

**NR:** The course may not be repeated.

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**Reading Course Descriptions**

**ENG 210 WRITING CENTER**
0.5 Unit; 1.5 hours learning 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 pass/no pass basis. NR

**MUS 148 JAZZ ENSEMBLE**
2 Units; 2 hours lecture; 2 hours lab
Transfers: CSU
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 conduct with nationally known guest artists. Offered as open-entry/open-exit. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. R-E-3

**N 173 NURSING CARE OF CHILDREN AND FAMILIES LAB**
2 Units; 6 hours lab
Transfers: CSU
Prerequisite: N 161 and 172 with a grade of "C" or better
Limitation: Official admission to the nursing program
Corequisite: N 173 Lecture
Recommended Preparation: HSC 228 and N 245
Focuses on the 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 a family centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation. Principles of nutrition, medication/IV administration, physiology, growth and development, comfort/pain management, advocacy, and concepts of diversity/culturally competent care for US cultural and ethnic groups. NR

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*Course may not be repeated.*
Enrollment Limitations for Active Participatory Courses That Are Related in Content

In accordance with Title 5 § 55040(c) students are limited to a maximum of four enrollments in a given group of active participatory courses, as defined in section 55000, in the areas of 1) physical education, 2) visual arts or 3) performing arts when such courses are determined to be related in content.

All enrollments in courses identified as related in content in the tables below count toward the maximum limitation of four enrollments per category. The limitation of four enrollments in a category applies even if a student receives a substandard grade or “W” during one or more of the enrollments in a designated course or petitions for repetition due to extenuating circumstances as provided in Title 5 § 55045. The limitation applies even if one or all of the courses in a category is designated as repeatable. The limitation applies district-wide, so if a student takes a comparable course at Irvine Valley College it will count against his or her four enrollments in a given category. Finally, the four enrollment limitation in a category is enforced across all previous enrollments.

For example, the Ballet category in the Dance table is comprised of five courses related in content: Introduction to Ballet, Ballet Dancing Level I, Intermediate Ballet, Pointe Ballet, and Advanced Ballet. Under the current guidelines students are limited to four total aggregate enrollments in these five courses. Examples of ways a student might utilize these four total aggregate enrollments permissible in the Ballet category include: 1) a student may enroll in four courses out of the five courses in the Ballet category one time each; 2) the student could enroll in Intermediate Ballet once, Pointe Ballet once, and Advanced Ballet twice if they possess the necessary skill level to begin beyond the introductory stage; or 3) because Advanced Ballet is repeatable three times a student could potentially use all four enrollment allocations for just that course. Regardless of whether the student uses all four enrollments in one course, one enrollment in each of four courses, or four enrollments in some combination of courses, he or she may not exceed a maximum of four enrollments in courses within the Ballet category.

The organization of courses related in content into the categories identified in the tables below was approved by Saddleback College's Curriculum Committee following consultation with the respective department chairs.

**ART**

<table>
<thead>
<tr>
<th>Category</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramics - Handbuilding</td>
<td>ART 10, ART 216, ART 217</td>
</tr>
<tr>
<td>Ceramics - Wheel</td>
<td>ART 11, ART 12, ART 13</td>
</tr>
<tr>
<td>Drawing</td>
<td>ART 80, ART 81, ART 82</td>
</tr>
<tr>
<td>Drawing from the Live Model</td>
<td>ART 85, ART 86, ART 87</td>
</tr>
<tr>
<td>Foundation and Design</td>
<td>ART 40, ART 41, ART 42</td>
</tr>
<tr>
<td>Jewelry</td>
<td>ART 228, ART 229, ART 230, ART 231</td>
</tr>
<tr>
<td>Life Sculpture</td>
<td>ART 78, ART 79</td>
</tr>
<tr>
<td>Painting</td>
<td>ART 50, ART 51, ART 52, ART 250</td>
</tr>
<tr>
<td>Painting from the Live Model</td>
<td>ART 53, ART 54</td>
</tr>
<tr>
<td>Relief Printmaking</td>
<td>ART 60, ART 61, ART 62, ART 164</td>
</tr>
<tr>
<td>Watercolor</td>
<td>ART 57, ART 58, ART 59, ART 261</td>
</tr>
</tbody>
</table>

**DANCE**

<table>
<thead>
<tr>
<th>Category</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerobics</td>
<td>KNES 1, KNES 3, KNES 7, KNES 8, KNES 16 (formerly KNES 116), KNES 50, DANC 77 (formerly DANC 177)</td>
</tr>
<tr>
<td>Ballet</td>
<td>DANC 51, DANC 52, DANC 53, DANC 67, DANC 71 (formerly DANC 171)</td>
</tr>
<tr>
<td>Dance Rehearsal &amp; Performance</td>
<td>DANC 9, DANC 10, DANC 11, DANC 12 (formerly DANC 112), DANC 14 (formerly DANC 114)</td>
</tr>
<tr>
<td>Hip Hop</td>
<td>DANC 78 (formerly DANC 178), DANC 79, DANC 80, DANC 81</td>
</tr>
<tr>
<td>Jazz Dance</td>
<td>DANC 57, DANC 58, DANC 59, DANC 73 (formerly DANC 173)</td>
</tr>
<tr>
<td>Latin Dance</td>
<td>DANC 66, DANC 70 (formerly DANC 170)</td>
</tr>
<tr>
<td>Modern Dance</td>
<td>DANC 54, DANC 55, DANC 56, DANC 72 (formerly DANC 172)</td>
</tr>
<tr>
<td>Pilates/Conditioning</td>
<td>KNES 9, DANC 63, TA 63 (no longer offered effective 2012), KNES 65/DANC 65, KNES 38/DANC 38 (formerly KNES/DANC 138)</td>
</tr>
<tr>
<td>Category</td>
<td>Courses</td>
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<td>-------------------------------------------------------------------------</td>
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<tr>
<td>Repertory</td>
<td>DANC 15 (formerly DANC 115)</td>
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<tr>
<td></td>
<td>DANC 16 (formerly DANC 116)</td>
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<tr>
<td></td>
<td>DANC 17</td>
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<tr>
<td></td>
<td>DANC 18</td>
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<tr>
<td>Social Dance</td>
<td>DANC 68</td>
</tr>
<tr>
<td></td>
<td>DANC 69 (formerly DANC 169)</td>
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<tr>
<td>Tap</td>
<td>DANC 60</td>
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<td></td>
<td>DANC 61</td>
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<td></td>
<td>DANC 62</td>
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<tr>
<td></td>
<td>DANC 75 (formerly DANC 175)</td>
</tr>
<tr>
<td>Yoga</td>
<td>KINES 28</td>
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<tr>
<td></td>
<td>KINES 39 (formerly KINES 139)</td>
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<tr>
<td></td>
<td>KINES 40</td>
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<tr>
<td></td>
<td>DANC 28 (formerly DANC 128)</td>
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<table>
<thead>
<tr>
<th>Category</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surfing</td>
<td>KINES 33</td>
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<tr>
<td></td>
<td>KINES 34</td>
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<td></td>
<td>KINES 35</td>
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<td></td>
<td>KINES 36</td>
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<tr>
<td>Swimming</td>
<td>KINES 41</td>
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<td>KINES 49</td>
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<tr>
<td>Tai Chi/Qigong</td>
<td>KINES 29</td>
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<td></td>
<td>KINES 37</td>
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<tr>
<td></td>
<td>(formerly KINES 137)</td>
</tr>
<tr>
<td></td>
<td>KINES 98</td>
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<td>Volleyball</td>
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<td>Walking/Hiking</td>
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<td>Chamber Music</td>
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<td>MUS 266 (no longer offered 2016)</td>
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<tr>
<td>Choral/Orchestral Ensembles</td>
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<tr>
<td>Commercial Music Ensembles</td>
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<td>MUS 182</td>
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### MUSIC

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<td>MUS 173</td>
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<td>MUS 260</td>
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<tr>
<td>Harpsichord</td>
<td>MUS 86 (formerly MUS 106)</td>
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<td></td>
<td>MUS 87 (formerly MUS 107)</td>
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<tr>
<td></td>
<td>MUS 88 (formerly MUS 108)</td>
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<td></td>
<td>MUS 89 (formerly MUS 109)</td>
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<tr>
<td>Jazz</td>
<td>MUS 140 (formerly MUS 240)</td>
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<td>MUS 197 (formerly MUS 297)</td>
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<td>Jazz Ensemble</td>
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<td>MUS 242</td>
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<tr>
<td>Jazz Piano</td>
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<td>MUS 252B</td>
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<td>MUS 252C</td>
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<tr>
<td>Keyboard Literature</td>
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<td>MUS 181</td>
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<td>Music Appreciation</td>
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<td>Music Composition</td>
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<td>Music Production</td>
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<td>CTVR 118 (formerly CA 118; no longer offered effective Fall 2014)</td>
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<td>Piano</td>
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<td>Piano Ensemble</td>
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<td>Professional</td>
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<td>Development for</td>
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<td>Musicians</td>
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<td>Vocal Ensemble</td>
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<td>Voice</td>
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### THEATRE ARTS

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<td>Advanced Acting Techniques</td>
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<td>Audition and Interview Techniques</td>
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<td>Musical Theatre Study</td>
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<td>Rehearsal and Performance</td>
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<td>Summer Conservatory</td>
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Accounting

ACCT 1A
FINANCIAL ACCOUNTING
4 Units 4 hours lecture 1 hour lab
Transfers: CSU, UC
The study of accounting as an information system, examining why it is important, and how it is used by investors and creditors to make decisions. Includes the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the classified financial statements, and statement analysis. Asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics are covered. NR

ACCT 1B
MANAGERIAL ACCOUNTING
4 Units 4 hours lecture 1 hour lab
Transfers: CSU, UC
Prerequisite: ACCT 1A
The study of the use and reporting of accounting data for managerial planning, cost control, and decision making purposes. Includes broad coverage of concepts, classifications, and behaviors of costs. Topics include cost systems, the analysis and use of cost information, cost-volume-profit analysis, contribution margin, profit planning, standard costs, relevant costs and capital budgeting. NR

ACCT 120
INTRODUCTION TO FINANCIAL PLANNING
3 Units 3 hours lecture
Transfers: CSU
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 are examined. NR

ACCT 202A
INTERMEDIATE ACCOUNTING I
3 Units 3 hours lecture
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. NR

ACCT 202B
INTERMEDIATE ACCOUNTING II
3 Units 3 hours lecture
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. NR

ACCT 203
COST ACCOUNTING
3 Units 3 hours lecture
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. NR

ACCT 210
ACCOUNTING ETHICS
4 Units 4 hours lecture
Prerequisite: ACCT 1B
Designed to expose students to a comprehensive coverage of ethical and professional issues encountered by accounting professionals. Prepares students to meet part of the Ethics requirement for becoming a Certified Public Accountant in the State of California. Primarily focuses on ethics pertaining to the Accounting profession. Study of the ethical framework includes the American Institute of Certified Public Accountants (AICPA) Code of Professional Ethics; Audit Responsibilities and Accounting Fraud, Legal and Regulatory Obligations, Earnings Quality, Corporate Governance, and International Financial Reporting. NR

ACCT 214
BUSINESS ANALYSIS AND CALCULATIONS
3 Units 3 hours lecture
Reviews mathematics used 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. NR

ACCT 215
GENERAL ACCOUNTING
3 Units 3 hours lecture
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. NR

ACCT 216
INDIVIDUAL INCOME TAX
4 Units 4 hours lecture
Recommended Preparation: ACCT 1A and 215
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. NR

ACCT 217
PARTNERSHIP AND CORPORATE TAXATION
3 Units 3 hours lecture
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. NR

ACCT 221
ACCOUNTING INFORMATION SYSTEMS
3 Units 3 hours lecture
Prerequisite: ACCT 1B
Familiarization to accounting information systems development process. Analysis, design, development, and implementation of accounting information systems. Automation of accounting information systems studied through the use and application of computers. NR

ACCT 235
ENTREPRENEURIAL ACCOUNTING
3 Units 3 hours lecture
Basic accounting course for the entrepreneur that provides the participant with financial statement analysis, tax and implications of 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 accounts and manage the financial aspect of the business. NR

ACCT 275
AUDITING
3 Units 3 hours lecture
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. NR

Anthropology

ANTH 1
BIOLOGICAL ANTHROPOLOGY LABORATORY
1 Unit 3 hours lab
Transfers: CSU, UC
Prerequisite: Must be taken concurrently with ANTH 1 or within one year after completing ANTH 1
 Supplemental lab to the biological anthropology lecture course. Laboratory exercises introduce students to the scientific method, molecular and Mendelian genetics, evolutionary theory, human and non-human primate anatomy and behavior, and the paleoanthropological fossil record. The primary focus is on human evolution and modern human variation. NR

ANTH 2
CULTURAL ANTHROPOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
An introduction to the comparative study of culture and society. Includes an examination of the similarities and differences in cultures around the world. Topics include anthropological theory and methodology, family and kinship, ritual and religion, economic organization, social inequalities, cultural change, and the impact of globalization. NR

ANTH 3
CULTURE AND LANGUAGE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ANTH 2
An examination of the complex relationship between culture and language. Topics include the structure of language, language acquisition, the origin of language, bilingualism, non-verbal communication, language change, and linguistic diversity. NR

ANTH 4
NATIVE AMERICAN CULTURES
3 Units 3 hours lecture
Transfers: CSU, UC
An introduction to Native American cultures of North America. Examines the prehistory, history, and linguistic and cultural diversity of the indigenous peoples of the United States and Canada from the pre-conquest period to the present. Topics include religious beliefs, social organization, health and healing, popular representations of Indians, ethnic identity, and questions of tribal sovereignty. NR

ANTH 5
ANTHROPOLOGY OF LATIN AMERICA-CULTURE, IDENTITY, AND POWER
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

ANTH 6
GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

ANTH 7
NATIVE AMERICAN CULTURES OF SOUTHERN CALIFORNIA
3 Units 3 hours lecture
Transfers: CSU, UC
An introduction to Native American cultures of Southern California. Examines the prehistory, history, and linguistic and cultural diversity of the indigenous peoples of the region from...
the pre-conquest period to the present. Topics include origins, missionization and assimilation policies, religious beliefs, social organization, ethnic identity, federal recognition struggles, and Indian gaming. 

**ANTH 8**  
**WORLD PREHISTORY**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
An introduction to the archaeology and prehistory of humankind from the earliest traces of hominin evolution to the emergence of state-level societies. Explores several key developments such as the domestication of plants and animals, the rise of social complexity, and the development of new technologies. 

**ANTH 9**  
**INTRODUCTION TO ARCHAEOLOGY**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
An introduction to the study of concepts, theories, data and models of anthropological archaeology that contribute to our knowledge of the human past. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. 

**ANTH 10**  
**CELTIC CULTURES**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
Overview of Celtic cultures throughout the world including archaeological evidence, social and economic structures, belief systems, language, and arts. 

**ANTH 13**  
**MAGIC, WITCHCRAFT, AND RELIGION**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
An introduction to the anthropological study of religious beliefs and practices. The course examines several key topics in the study of religion such as mythology, symbolism, ritual, healing practices, altered states of consciousness, magic, and witchcraft, as well as the impact of religion on society, politics, and economics. 

**ANTH 14**  
**INTRODUCTION TO VISUAL CULTURE**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
An introduction to the anthropological use and critique of film, photography, and other visual mediums in the portrayal of culture(s). Questions of the role of power in representational practices will be addressed. 

**ANTH 15**  
**THE WORLD OF PRIMATES**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
An introduction to primates and primatology, including species diversity, ecology, primate behavior, and conservation. Topics include communication, hierarchies, male-female interaction, protocultural behavior, social learning, tool use, play, cognition, and self-awareness. 

**ANTH 16**  
**ARCHAEOLOGICAL FIELD METHODS**  
*1 Unit 0.5 hour lecture 1.5 hours lab*  
Transfers: CSU, UC  
Recommended Preparation: ANTH 9  
An introduction to archaeological field and laboratory methods. Students will be introduced to the techniques of excavation, the recording of artifacts, and the analysis and interpretation of sites and excavated materials. Practical field exercises, laboratory analysis, and mandatory field trips are included. 

**ANTH 17**  
**THE BIOLOGICAL EVOLUTION OF HUMAN NATURE**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
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 socio-cultural diversity. 

**ANTH 19**  
**FORENSIC ANTHROPOLOGY**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
Recommended Preparation: ANTH 1  
An introduction to the methods, techniques, and procedures of forensic anthropology. Topics include human osteology, biological variation, taphonomy, and personal identification in the study of human remains for medicolegal purposes (formerly ANTH 100). 

**ANTH 21**  
**WOMEN, GENDER, AND CULTURE - CROSS-CULTURAL PERSPECTIVES**  
*3 Units 3 hours lecture*  
Transfers: CSU, UC  
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. 

**Arabic**  

**ARAB 1**  
**ELEMENTARY ARABIC**  
*5 Units 5 hours lecture*  
Transfers: CSU, UC  
Corequisite: ARAB 901  
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**  
**ELEMENTARY ARABIC**  
*5 Units 5 hours lecture*  
Transfers: CSU, UC  
Prerequisite: ARAB 1 or two years of high school Arabic.  
Corequisite: ARAB 902
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  
INTERMEDIATE ARABIC  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: ARAB 2 or three years of high school Arabic  
Corequisite: ARAB 903  
Intermediate level course focuses on fluency on reading, writing, speaking, and listening. Continues the study of Arabic culture.  

ARAB 4  
INTERMEDIATE ARABIC  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: ARAB 3 or four years of high school Arabic  
Corequisite: ARAB 904  
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  
INTRODUCTION TO ARABIC CULTURE  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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 901  
ARABIC LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: ARAB 1 Requires concurrent enrollment in Arabic 1. Enhances and provides practice in skills learned in Arabic 1 course.  

ARAB 902  
ARABIC LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: ARAB 2 Requires concurrent enrollment in Arabic 2. Enhances and provides practice in skills learned in Arabic 2 course.  

ARAB 903  
ARABIC LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: ARAB 3 Requires concurrent enrollment in Arabic 3. Enhances and provides practice in skills learned in Arabic 3 course.  

ARAB 904  
ARABIC LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: ARAB 4 Requires concurrent enrollment in Arabic 4. Enhances and provides practice in skills learned in Arabic 4 course.  

Architecture  
ARCH 10  
INTRODUCTION TO ARCHITECTURE  
2 Units 2 hours lecture  
Transfers: CSU, UC  
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  
HISTORY OF ARCHITECTURE  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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  
BASIC ARCHITECTURAL DESIGN I  
3 Units 1 hour lecture 6 hours lab  
Transfers: CSU, UC  
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  
DESCRIPTIVE DRAWING AND PERSPECTIVE  
3 Units 2 hours lecture 3 hours lab  
Transfers: CSU, UC  
Recommended Preparation: ARCH 124A  
Construct 3D drawings, including obliques, isometrics, 1-pt. and 2-pt. perspectives. Construct basic shadows and shade.  

ARCH 44  
ARCHITECTURAL PRESENTATION AND RENDERING  
2 Units 6 hours lab  
Transfers: CSU, UC  
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  
INTRODUCTION TO COMPUTER-AIDED DRAFTING  
3 Units 2 hours lecture 4 hours lab  
Transfers: CSU, UC  
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  
COMPUTER-AIDED DRAFTING  
3 Units 2 hours lecture 4 hours lab  
Transfers: CSU, UC  
Recommended Preparation: ARCH 124A or DR 50  
An intermediate to advanced level course in the operation and application of computer-aided drafting systems, used to create, edit, save, and plot technical 2D and 3D drawings. Also listed as DR 51. Credit given in either area, not both.
ARCH 110  
STATICS CS AND STRENGTH OF MATERIALS FOR ARCHITECTURE  
3 Units 3 hours lecture  
Transfers: CSU  
A study of structural engineering and the strength of building materials. Investigates the definition of structure and natural forces that act upon buildings and structural components. An in-depth analysis of common structural systems and building types as the basis for study of individual structural components. Beams, columns, foundations, load tracing, cross-sectional capabilities of individual members, bending and shear, structural connections, hybrid structures and lateral design are investigated. Sustainable design and green building methods as well as future trends in building materials are linked to structural design theory.  NR

ARCH 122  
ARCHITECTURAL PRACTICE  
2 Units 2 hours lecture  
Transfers: CSU  
An introductory course covering the profession of architecture and the construction industry including professional relations, office procedures, and legal aspects.  NR

ARCH 124A  
ARCHITECTURAL DRAWING I  
4 Units 3 hours lecture 3 hours lab  
Transfers: CSU  
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.  NR

ARCH 124B  
ARCHITECTURAL DRAWING II  
4 Units 3 hours lecture 3 hours lab  
Transfers: CSU  
Prerequisite: 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.  NR

ARCH 124C  
ARCHITECTURAL DRAWING III  
4 Units 3 hours lecture 3 hours lab  
Transfers: CSU  
Prerequisite: 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.  NR

ARCH 126  
MATERIALS AND METHODS OF CONSTRUCTION  
3 Units 3 hours lecture  
Transfers: CSU  
Studies various building materials, their use and application in the structural makeup of buildings.  NR

ARCH 132  
RESIDENTIAL PLANNING, PRICING AND DESIGN  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU  
Recommended Preparation: ARCH 124A  
Design a single-family dwelling. Complete a design process that considers proper site relationships, plan functions, form, structure, and materials.  NR

ARCH 136  
BASIC ARCHITECTURAL DESIGN II  
3 Units 1 hour lecture 6 hours lab  
Transfers: CSU  
Recommended Preparation: ARCH 134  
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.  NR

ARCH 152  
ADVANCED COMPUTER-AIDED DESIGN  
3 Units 2 hours lecture 4 hours lab  
Transfers: CSU  
Recommended Preparation: ARCH/DR 50 or ARCH/DR 51  
Advanced computer-aided design and drafting with emphasis on advanced 3D CAD knowledge and skills in the completion of technical drawings that support 3D modeling. Also listed as DR 152. Credit given in either area, not both.  NR

ARCH 161  
BLUEPRINT PLANS AND SPECIFICATION READING  
4 Units 3 hours lecture 3 hours lab  
Transfers: CSU  
Blueprint and specification reading as applied to California State codes. Includes residential, commercial, and hospital construction.  NR

ARCH 162  
CONSTRUCTION ESTIMATION  
3 Units 2 hours lecture 4 hours lab  
Transfers: CSU  
Recommended Preparation: ARCH 124A  
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.  NR

ARCH 163  
INTERNATIONAL BUILDING CODE INSPECTION  
4 Units 4 hours lecture  
Transfers: CSU  
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.  NR

ARCH 164  
COMBINATIONAL RESIDENTIAL DWELLING INSPECTION  
3 Units 3 hours lecture  
Transfers: CSU  
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. Qualifies as CE for state mandated AB 717. NR

ARCH 165
ELECTRICAL CODE INSPECTION
3 Units 3 hours lecture
Transfers: CSU
A comprehensive study and review of the National Electrical Code and local authorities. Also covers regulations for inspection of residential and commercial units. NR

ARCH 200
DESIGN IN ARIZONA,
RIVERSIDE AND PALM SPRINGS
1.5 Units 1 hour lecture 1.5 hours lab
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. NR

ARCH 211
CONCRETE INSPECTION
3 Units 3 hours lecture
Presents technical knowledge needed by inspectors, code enforcement personnel, contractors and architects. Covers detailed concrete design, placement, mixing and testing. NR

ARCH 212
PLUMBING CODES - DRAINS, WASTE, VENTS, WATER, AND GAS
3 Units 3 hours lecture
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. NR

ARCH 213
MECHANICAL CODE - HEATING, AC, REFRIGERATION, AND DUCTWORK
3 Units 3 hours lecture
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. NR

ARCH 218
FOUNDATION STUDIO I
ARCHITECTURE
4 Units 3 hours lecture 3 hours lab
A design studio based on the Bauhaus Foundation Course that explores the many aspects of visual and spatial design leading to studied solutions in architecture. Concepts include black and white forms and negative space, communication through shapes, textures, color and materials, graphic design and typeface fonts, anthropometrics and designing for human scale. Studio will focus on designing and model building architecture for a specific building type and site, including climatic adaptation, native and locally produced materials, concepts of green design and LEED certification, creating human scaled spaces, and designing functional architectural solutions. NR

ARCH 219
RESIDENTIAL AND COMMERCIAL SPACE PLANNING
4 Units 3 hours lecture 3 hours lab
Recommended Preparation: ARCH 124A
Focuses on the theory, layout, building codes and creativity needed in designing efficient floor plans, with a special emphasis on the scale of the building and the context of the site. Anthropometrics and ergonomic studies are the starting point to human scale design. Scale and arrangement of furnishings, circulation, storage, room proportions, function and users are all brought into the equation of good design. Projects will include typical single family residential design, residential estate design, multifamily residential design, commercial design, institutional design, and parking design with focus on sustainable architectural design practices. NR

ARCH 220
REVIT AND BUIDLING INFORMATION MANAGEMENT (BIM)
4 Units 3 hours lecture 3 hours lab
Recommended Preparation: ARCH 51 or DR 51
Introduction of 3-dimensional building modeling using Autodesk Revit to provide visualization and method of construction information for architectural design. Building Information Modeling (BIM) will be used to provide detailed construction information and coordination of architecture and engineering in simple and complex building systems. Rendering and presentation techniques using Revit are also introduced. Student needs solid knowledge of computer drafting applications, file management and building construction techniques including building materials and methods of construction. NR

ARCH 221
ADVANCED REVIT AND BUILDING INFORMATION MANAGEMENT II
4 Units 3 hours lecture 3 hours lab
Recommended Preparation: ARCH 220
Advanced study of 3D building modeling using Autodesk Revit to provide visualization and method of construction information for architectural design. Building Information Modeling (BIM) will be used to provide detailed construction information and coordination of architecture and engineering in simple and complex building systems. Rendering and presentation techniques using Revit are also introduced. Student needs solid knowledge of computer drafting applications, file management and building construction techniques
including building materials and methods of construction.  

**ARCH 231**  
**LEED AND SUSTAINABLE ARCHITECTURE**  
3 Units 3 hours lecture  
Examines the emerging movement for sustainable practices in architecture and construction. The model of the US Green Building Council for LEED (Leadership in Energy and Environmental Design) defines this course. Certification of buildings is examined including: Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation in Design. For residential construction Locations and Linkages, as well as Awareness and Education are discussed. Regional Priorities focus on water and air resources for Southern California. The LEED professional accreditations: LEED Green Associate and the 5 LEED A.P. designations are also investigated. Identify approaches to sustainable architecture.  

**ARCH 260**  
**ARCHITECTURE IN NORTHERN CALIFORNIA**  
1 Unit 1 hour lecture 1 hour lab  
Visit architecture in San Francisco, S. Barbara, San Luis Obispo--SF Civic Center, Union Square, Herman Plaza, Haight-Ashbury, Golden Gate Park, Marin Civic Center, Napa valley, SB and SLO downtowns, Hearst Castle.  

**ARCH 261**  
**ORANGE AND SAN DIEGO ARCHITECTURE**  
1 Unit 1 hour lecture 1 hour lab  
Study architecture which urbanize and texture the region -- from the Salk Institute and UCSD Library to the Crystal Cathedral, Capistrano Library and San Diego's live/work housing.  

**ARCH 262**  
**LOS ANGELES ARCHITECTURE**  
1 Unit 1 hour lecture 1 hour lab  
Tour LA architecture--including Gamble House, Bradbury Building, Biltmore Hotel, Wright/Eames/Gehry houses, Eric Moss/Morphosis projects, and Getty Museum.  

**ARCH 270**  
**FIELD STUDY - EUROPEAN ARCHITECTURAL HISTORY**  
3 Units 3 hours lecture  
Field study of European architectural history and the society that created the built environment of cultures. Countries may include Italy, France, England, Ireland, Scotland, Germany, Switzerland, Denmark and the Netherlands. Includes social, cultural, religious, economic, geographic and climatic forces that shape the built environment. Examines how societies have developed a sustainable culture using local resources. Sites visits include iconic architecture, as well as vernacular construction. Discussion and in-depth study of areas of travel and architectural experiences will be conducted in class after the trip.  

**ARCH 271**  
**FIELD STUDY - EUROPEAN SKETCH, DRAW, PHOTO**  
3 Units 3 hours lecture  
Field study of the European Region using the graphic arts of architecture--sketching, drawing and photography--while traveling and exploring architecture and the built environment. Countries may include Italy, Spain, France, England, Ireland, Scotland, Germany, Denmark, Switzerland, and the Netherlands. Students will graphically capture the culture and the architectural record of the region's history. Upon return to the classroom, an in-depth study of graphic techniques will be presented, discussed and applied.  

**ARCH 272**  
**FIELD STUDY - EUROPEAN DESIGN STUDIO**  
4 Units 3 hours lecture 3 hours lab  
Field study in the European Region using the built environment as the basis for a design studio in architecture--designing residential, commercial, and civic spaces--while traveling and exploring the region, which may include Italy, Spain, France, England, Ireland, Scotland, Germany, Denmark, Switzerland, and the Netherlands. Allows students to capture the culture and the architectural style of the region in their designs. Upon return to the classroom, an in-depth study of architectural design in a studio setting will be presented, discussed and applied.  

**Art**  

**ART 4**  
**FUNDAMENTALS OF ART**  
3 Units 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation: ART 80  
Emphasizes fundamental art ideas, modes, devices, problems of organization and structure terminology, media, and the relationship of art to society.  

**ART 9**  
**CERAMICS FUNDAMENTALS**  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: ART 9  
Introduction to ceramics materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. The course covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures.  

**ART 10**  
**CERAMICS - HANDBUILDING I**  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: ART 9  
An introduction to ceramic handbuilding techniques with emphasis on craftsmanship and good design. Students are limited to a combined total of four enrollments in ART 10, 216, and 217.  

**ART 11**  
**CERAMICS - WHEEL I**  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: ART 9
An introduction to beginning wheel techniques with emphasis on traditional shapes and forms. Students are limited to a combined total of four enrollments in ART 11, 12, and 13. NR

**ART 12 CERAMICS - WHEEL II**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

Prerequisite: ART 11

A continuation of basic throwing techniques with emphasis on specific shapes and forms utilitarian and decorative. Students are limited to a combined total of four enrollments in ART 11, 12, and 13. NR

**ART 13 CERAMICS - WHEEL III**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

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. Students are limited to a combined total of four enrollments in ART 11, 12, and 13. NR

**ART 40**

**2-D FOUNDATIONS**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

Recommended Preparation: ART 40

Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments. Students are limited to a combined total of four enrollments in ART 40, 41, and 42. NR

**ART 41**

**THREE-DIMENSIONAL DESIGN**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

Recommended Preparation: ART 40

Introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects. Students are limited to a combined total of four enrollments in ART 40, 41, and 42. NR

**ART 42**

**COLOR THEORY AND PRACTICE**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

Prerequisite: ART 12

Recommended Preparation: ART 40, 50 and 80

Principles, theories, and applications of subtractive color in two dimensions. 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 includes practical lab experience in mixing color, matching colors and color analysis. Topics include major historical and contemporary color systems, production of applied color, and the elements of design as they apply to color. Students are limited to a combined total of four enrollments in ART 40, 41, and 42. NR

**ART 50**

**PAINTING - I**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

Recommended Preparation: ART 40, 80

Introduction to the basic elements, principles and practices of painting. Focus on exploration of painting materials, perceptual skills, paint mixing, color theory, and methods of applying paint. Creative responses to representational subject matter will be emphasized. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

**ART 51**

**PAINTING - II**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

Prerequisite: ART 50

Designed to draw upon the skills developed in ART 50 to achieve greater levels of mastery over paint surface and composition emphasizing painting as a creative process while developing more advanced skills in oil and/or acrylic. Painting from life, students will learn to understand the importance of warm and cool value relationships and work with a limited palette in order to learn how to mix color. An extended palette will be introduced and the properties of transparent and opaque paint will be addressed. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

**ART 52**

**PAINTING - III**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

Prerequisite: ART 51

Designed to draw upon the skills developed in ART 51 to achieve greater levels of mastery over paint surface and composition. Explores representational and non-representational subject matter in a variety of media including acrylic and oil. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

**ART 53**

**PAINTING FROM THE LIFELIKE MODEL I**

*3 Units 1.5 hours lecture 4.5 hours lab*

Transfers: CSU, UC

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...
ART 54
PAINTING FROM THE LIVE
MODEL II
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
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. Students are limited to a
combined total of four enrollments in
ART 53 and 54.  NR

ART 57
WATERCOLOR I
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
Recommended Preparation: ART 40, 80
An introduction to water-based media
with emphasis on transparent
watercolor. Students will learn the
basic techniques of surface
preparation, paper stretching
transparent application, graduated
washes dry brush, and wet-into-wet
techniques. A variety of materials,
devices, and means for representing
the volume, structure, character, and
delineation of natural and man made
forms via the watercolor medium will
be explored. Students are limited to a
combined total of four enrollments in
ART 57, 58, 59, and 261.  NR

ART 58
WATERCOLOR II
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
Prerequisite: ART 57
Further implementation of painting
with transparent watercolor. 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. Students are
limited to a combined total of four
enrollments in ART 57, 58, 59, and
261.  NR

ART 59
WATERCOLOR III
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
Prerequisite: ART 58
Emphasizes advanced techniques of
transparent media, including use of
collage and other mixed media.
Further implementation of advanced
watercolor techniques that explore
more advanced problems in color,
light, and composition will be
explored. Students are limited to a
combined total of four enrollments in
ART 57, 58, 59, and 261.  NR

ART 60
INTAGLIO (ETCHING) AND
RELIEF I
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
Prerequisite: ART 60
Recommended Preparation: ART 80
An introductory printmaking course
designed to teach students a variety
of approaches in Relief and Intaglio
areas of printmaking. The basic
processes of etching, drypoint, relief
printing, 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 concept to the printing of
an edition. Students are limited to a
combined total of four enrollments in
ART 60, 61, 62, and 164.  NR

ART 61
INTAGLIO (ETCHING) AND
RELIEF II
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
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. Students are limited to
a combined total of four
enrollments in ART 60, 61, 62, and
164.  NR

ART 62
INTAGLIO (ETCHING) AND
RELIEF III
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
Prerequisite: ART 61
Recommended Preparation: ART 80
Designed with emphasis in
advanced skills in the processes of
relief and intaglio printmaking. The
course will cover advanced skills in
dition printing (color), multi-plate
printing, color printing, and continued
development of personal imagery and
unique style. Students will
incorporate intermediate techniques
learned in prior courses to develop
advanced multicolor, multiplate
registration, and printing techniques.
Students are limited to a combined
total of four enrollments in ART 60,
61, 62, and 164.  NR

ART 63
INTRODUCTION TO SCREEN
PRINTING
3 Units 2 hours lecture 3 hours
lab
Transfers: CSU, UC
Prerequisites: ART 80
Recommended Preparation: ART 61
An introductory printmaking course
designed to teach students a variety
of approaches in Relief and Intaglio
areas of printmaking. The basic
processes of etching, drypoint, relief
printing, 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 concept to the printing of
an edition. Students are limited to a
combined total of four enrollments in
ART 60, 61, 62, and 164.  NR

NR

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. Students
are limited to a combined total of
four enrollments in ART 53 and 54.

ART 54
PAINTING FROM THE LIVE
MODEL II
3 Units 1.5 hours lecture 4.5
hours lab
Transfers: CSU, UC
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. Students are limited to a
combined total of four enrollments in
ART 53 and 54.  NR
ART 70  
FUNDAMENTALS OF SCULPTURE  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context. NR

ART 71  
ADDITIVE SCULPTURE  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 70  
An in-depth investigation of the additive processes in sculpture, including clay and plaster. NR

ART 72  
SUBTRACTIONAL SCULPTURE  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 70  
An in-depth investigation of the subtractive process in sculpture, including plaster and stone. NR

ART 78  
BEGINNING LIFE SCULPTURE  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 70  
Sculpting from a live model using clay with emphasis placed on gesture, composition, scale, proportion as related to representational forms. Students are limited to a combined total of four enrollments in ART 78 and 79. NR

ART 79  
ADVANCED LIFE SCULPTURE  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 70  
Students expand their ability to sculpt from the live model to include larger scale and the materials of wood and/or stone. Students are limited to a combined total of four enrollments in ART 78 and 79. NR

ART 80 DRAWING I  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
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. Students are limited to a combined total of four enrollments in ART 80, 81, and 82. NR

ART 81 DRAWING II  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 80  
Emphasizes the process of drawing as a form of creative expression. Students will explore approaches to technical and conceptual problems in drawing using a variety of mediums, techniques and methodologies. Through exercises covering historical and contemporary approaches to drawing students will build on fundamental drawing skills to develop a personal approach to content and material. Students are limited to a combined total of four enrollments in ART 80, 81, and 82. NR

ART 82 DRAWING III  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
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. Students are limited to a combined total of four enrollments in ART 80, 81, and 82. NR

ART 85 DRAWING FROM THE LIVE MODEL I  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: ART 80  
Introduction to drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. Students are limited to a combined total of four enrollments in ART 85, 86, and 87. NR

ART 86 DRAWING FROM THE LIVE MODEL II  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 85  
Continued study toward developing an understanding of drawing the human figure with emphasis on surface anatomy, form, structure, proportion, gesture, contour, and volume. Students work from the draped and nude model. Media include graphite, charcoal, Conte Crayon, and pastels on a variety of papers and surfaces. Students work from the draped and nude model. Students are limited to a combined total of four enrollments in ART 85, 86, and 87. NR

ART 87 DRAWING FROM THE LIVE MODEL III  
3 Units 1.5 hours lecture 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 86  
Further study on developing and understanding drawing the human figure as the basis of representational and expressionistic drawing. Students will experiment with a variety of wet and dry media. Students work from the draped and nude model. Students are limited to a combined total of four enrollments in ART 85, 86, and 87. NR

ART 140 BEGINNING GRAPHIC DESIGN  
3 Units 2 lecture 3 hours lab  
Transfers: CSU  
Prerequisite: ART 80  
Recommended Preparation: ART 80  
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. NR
ART 141
GRAPHIC RENDERING TECHNIQUES
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Exploration of two-dimensional media for producing graphics and illustrations. Projects encourage development of illustration skills for a variety of design applications. Recognition and choice of techniques for translating concepts into accurate and compelling renderings. Also listed as GD 141. Credit given in either area, not both. NR

ART 142
PACKAGE DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Introduction to traditional and computer-generated design and construction 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. NR

ART 143
ART SURVIVAL - FROM STUDENT TO ARTIST
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Bridges the gap from "student" to "exhibiting artist." Open to all art students in all media. Development of a cohesive body of work and presentation techniques for self and work. NR

ART 145
GRAPHIC ILLUSTRATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Develop illustrations for advertising, informational, graphic, 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 GD 145. Credit given in either area, not both. NR

ART 150
ARCHITECTURAL CERAMICS
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Presents the basic skills of ceramic tile and bas relief fabrication and installation in an architectural environment. Addresses the history of architectural tile as it relates to current usage and contemporary concepts. NR

ART 164
INTAGLIO (ETCHING) AND RELIEF I
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Prerequisite: ART 62
Recommended Preparation: ART 80
Designed for advanced printmakers with emphasis on photopolymer plates and digital technology for use in intaglio and relief printmaking. Focus will be on solar plate technology, digital image making and manipulation for output on transparency, and printing/editioning of imagery on an etching press. Students are limited to a combined total of four enrollments in ART 60, 61, 62, and 164. NR

ART 175
METAL CASTING
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
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, sprue and gate systems, mold dewaxing, metal pouring procedures, metal finishing, and coloring techniques. NR

ART 216
CERAMICS - HANDBUILDING II
3 Units 1.5 hours lecture 4.5 hours lab
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. Students are limited to a combined total of four enrollments in ART 10, 216, and 217. NR

ART 217
CERAMICS - HANDBUILDING III
3 Units 1.5 hours lecture 4.5 hours lab
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. Students are limited to a combined total of four enrollments in ART 10, 216, and 217. NR

ART 228
BENCH JEWELER I
3 Units 1.5 hours lecture 4.5 hours lab
Recommended Preparation: ART 40
Introduction to the history of jewelry, design processes, materials, core techniques of piercing, sawing, basic soldering, and safety policies and procedures of a bench jeweler. Students are limited to a combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 229
BENCH JEWELER II
3 Units 1.5 hours lecture 4.5 hours lab
Prerequisite: ART 228
Recommended Preparation: ART 40
Introduces green alternatives in the jewelry industry, the development of concept designs, and the techniques of etching, surface textures, cold connection and the process of soldering wire elements. Students are limited to a combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 230
BENCH JEWELER III
3 Units 1.5 hours lecture 4.5 hours lab
Prerequisite: ART 229
Recommended Preparation: ART 40
Introduces the more advanced soldering techniques of soldering hollow forms and rings. Students are limited to a
combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 231
BENCH JEWELER IV
3 Units 1.5 hours lecture 4.5 hours lab
Prerequisite: ART 230
Recommended Preparation: ART 40
Explore more advanced techniques of construction, fusing silver, reticulation, catches, hinges and jewelry repair. Learn basic jewelry photography for including work in a portfolio. Students are limited to a combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 240
INTERMEDIATE GRAPHIC DESIGN
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: GD 140 or ART 140
The further study of design concepts used in graphic design as well as portfolio preparation. Studio work will include conceptualization techniques and layout and production of designed formats. Also listed as GD 240. Credit given in either area, not both. NR

ART 250
PLEIN AIR LANDSCAPE PAINTING
3 Units 1.5 hours lecture 4.5 hours lab
Recommended Preparation: ART 50, 80
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. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

ART 261
OPAQUE WATERCOLOR
3 Units 1.5 hours lecture 4.5 hours lab
Recommended Preparation: ART 57
An overview of traditional and contemporary color practices, techniques and styles with opaque watercolor or gouache. A comprehensive and practical application of color media which is used as a bridge between Newtonian color theory and intuitive painting. Provides the opportunity for exploration and familiarization of painting methods and styles through a range of in-class exercises and outside assignments all addressing the spectrum of color and its relationships. Students are limited to a combined total of four enrollments in ART 57, 58, 59, & 261. NR

Art History

ARTH 20
ART APPRECIATION
3 Units 3 hours lecture
Transfers: CSU, UC
Designed to develop an understanding of historical and contemporary art forms, including examples of painting, sculpture, and architecture (formerly ART 20). NR

ARTH 21
WOMEN AND ART
3 Units 3 hours lecture
Transfers: CSU, UC
Examines the history of relations between women, art, and ideology in global 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 and participate in visual culture. Explores women's changing relation to art practice. Includes analysis of feminism, gender roles, and identity construction in art both historically and in contemporary art forms (formerly ART 21). NR

ARTH 22
SURVEY OF ASIAN ART (INDIA, CHINA, JAPAN, AND KOREA)
3 Units 3 hours lecture
Transfers: CSU, UC
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 (formerly ART 22). NR

ARTH 23
AFR, OCEANIC, AND ANCIENT ARTS OF THE AMERICAS
3 Units 3 hours lecture
Transfers: CSU, UC
Designed to develop an understanding and appreciation of the indigenous arts of Africa, the South Pacific, and the ancient arts of North America. Studies the painting, sculpture, architectural traditions of preliterate societies emphasizing their culture as well as artistic significance. NR

ARTH 24
INDIGENOUS ARTS OF THE AMERICAS
3 Units 3 hours lecture
Transfers: CSU, UC
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 (formerly ART 24). NR

ARTH 25
SURVEY OF ART HISTORY - ANCIENT WORLDS TO GOTHIC
3 Units 3 hours lecture
Transfers: CSU, UC
Emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives (formerly ART 25). NR

ARTH 26
SURVEY OF WESTERN ART HISTORY - RENAISSANCE TO CONTEMPORARY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Completion of or concurrent enrollment in ENG 200
Survey of the art of the Western world emphasizing the historical development of painting, sculpture,
and architecture including philosophical and cultural perspectives (formerly Art 26). NR

ARTH 27
HISTORY OF AMERICAN ART
3 Units 3 hours lecture
Transfers: CSU, UC
Chronological development of painting, sculpture, and architecture in the United States from its pre-colonial past to the end of World War II. The contributions and influences of a variety of ethnic groups to the diversity of art in the United States will be addressed. The artistic contribution of Native American, African Americans, Asian Americans, Chicano/Latino Americans and European Americans will be studied in the larger context of American society, history, and culture (formerly ART 27). NR

ARTH 29
INTRODUCTION TO WORLD ART
3 Units 3 hours lecture
Transfers: CSU, UC
Survey of the visual arts of the world through the millennia, including the regions and cultures of Europe, Asia, the Americas, and Africa. Major emphasis is given to the development of the world's most significant painting, sculpture, and architecture within their respective social, political and religious contexts. The course examines the roles of artist and patron, and the relationship between the art object and its intended function (formerly ART 29). NR

ARTH 100
ART GALLERY DISPLAY AND EXHIBITION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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 (formerly ART 100). NR

ARTH 102
INTRODUCTION TO THE THEORIES OF ART
3 Units 3 hours lecture
Transfers: CSU
Offers historical perspectives of the visual arts by thematically examining the intellectual ideas and technologies that inform their production and reception. The significance of the changing role of the visual arts and their producers will be explored in this course by way of art and design works which reflect, interpret and comment upon the ideas, events, social histories and technological developments of their respective eras. Students will be encouraged to appreciate and analyze the historical underpinnings, which have shaped and directed the practice and reception of art and design. NR

ARTH 103
HISTORY OF MODERN ART 1825-1945
3 Units 3 hours lecture
Transfers: CSU
Examines the history of visual culture in Europe and North America from the invention of Photography to the end of the second world war. Topics covered include the following: Realism, Impressionism, Post-Impressionism, Symbolism, Cubism and its responses, Expressionism and its responses, Surrealism, International style and North American Regionalisms. Looks closely at significant theoretical constructs such as the Avant Garde, Modernism, Art Criticism and Patronage (institutional and private). Examines the effects of new technologies on the development of art during this period; most importantly photography and film. NR

ARTH 104
SURVEY OF CONTEMPORARY ART
3 Units 3 hours lecture
Transfers: CSU
Surveys and analyzes the Global expansion, development, and transmission of art practices since 1945. Post World War II cultures produced rapid economic, technological and social changes. In turn, artists responded to these social changes by producing works of art that both comment on and absorb the cultural environments in various ways through individual visions and shared ideological perspectives. Examines art since 1945 by looking at the works and the ideas and technologies that inform them. Also examines the public and private spaces in which art is seen and understood. NR

ARTH 120
TOUR - ART HISTORY AND APPRECIATION
3 Units 3 hours lecture
Transfers: CSU
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 (formerly ART 120). NR

Astronomy

ASTR 20
GENERAL ASTRONOMY
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

ASTR 21
THE SOLAR SYSTEM
3 Units 3 hours lecture
Transfers: CSU, UC
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; tectons; volcanism; surface processes; and atmospheric and thermal evolution of earth, the
chaging systems, and accessory and lighting systems. Scan tool and digital multimeter techniques will be emphasized. NR

AUTO 102
AUTOMOTIVE ENGINE PERFORMANCE/ELECTRONICS AND IGNITION
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100 and 207
Operating principles, troubleshooting techniques, and repair procedures for automotive engine performance systems. Emphasis on 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. NR

AUTO 103
AUTOMOTIVE ENGINE PERFORMANCE/FUEL AND EMISSION SYSTEMS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

AUTO 104A
AUTOMOTIVE ENGINES
5 Units 3.5 hours lecture 4.5 hours lab
Transfers: CSU
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. NR

AUTO 105
AUTOMOTIVE POWER TRAIN
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

AUTO 106A
AUTOMOTIVE SUSPENSION AND ALIGNMENT
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

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. NR

ASTR 25
OBSERVATIONAL ASTRONOMY
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
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. NR

Automotive

AUTO 100
AUTOMOTIVE FUNDAMENTALS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

AUTO 101
AUTOMOTIVE ELECTRICAL SYSTEMS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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

AUTO 102
AUTOMOTIVE ENGINE PERFORMANCE/ELECTRONICS AND IGNITION
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100 and 207
Operating principles, troubleshooting techniques, and repair procedures for automotive engine performance systems. Emphasis on 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. NR

AUTO 103
AUTOMOTIVE ENGINE PERFORMANCE/FUEL AND EMISSION SYSTEMS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

AUTO 104A
AUTOMOTIVE ENGINES
5 Units 3.5 hours lecture 4.5 hours lab
Transfers: CSU
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. NR

AUTO 105
AUTOMOTIVE POWER TRAIN
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

AUTO 106A
AUTOMOTIVE SUSPENSION AND ALIGNMENT
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR
AUTO 106B
AUTOMOTIVE BRAKE SYSTEMS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100
Operating principles, troubleshooting techniques, and repair of automotive disc and drum brake systems. Latest antilock brake systems (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. NR

AUTO 107
AUTOMATIC TRANSMISSION
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100
Operating principles, design, overhaul, adjustment, and servicing of front wheel drive (FWD) and rear wheel drive (RWD) automatic transmissions. Troubleshooting techniques utilizing scan tools for computer-controlled transmission diagnosis. Demonstrated lectures and laboratory work on automatic transmissions. NR

AUTO 108
AUTOMOTIVE AIR CONDITIONING
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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 A609 certification for lab activities. NR

AUTO 109
CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE
5 Units 4.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100 and completion of or concurrent enrollment in AUTO 102, 103, or 202
This Bureau of Automotive Repair certified course meets the Level I requirements for taking the California B.A.R. licensed smog check inspector 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. NR

AUTO 200
ENHANCED AREA CLEAN AIR CAR COURSE
1 Unit 1 hour lecture 1 hour lab
Recommended Preparation: AUTO 100 and 109
CA BAR Smog Program Level II Bureau of Automotive Repair certified course meets one of the requirements for taking the State of California B.A.R. licensed repair smog check technician examination. Course content will include ASM emission inspection system operation (Dyno), Data Acquisition Device (DAD) operation and diagnostics. For state certification, students must meet Bureau of Automotive Repair specific requirements. NR

AUTO 202
ADVANCED ENGINE PERFORMANCE DIAGNOSIS
3 Units 2.5 hours lecture 1.5 hours lab
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. NR

AUTO 204A
HIGH PERFORMANCE ENGINE BLUEPRINTING - ROTATING ASSEMBLY
3 Units 2.5 hours lecture 1.5 hours lab
Prerequisite: Completion of or concurrent enrollment in AUTO 104A or 104B
Recommended Preparation: AUTO 100 or 207
Incorporates advanced measuring techniques, machining skills and advanced theory in building a high-performance engine. Advanced cylinder block boring, honing, and decking procedures as well as crankshaft and piston/rod balancing are taught. NR

AUTO 204B
HIGH PERFORMANCE ENGINE BLUEPRINTING - CYLINDER HEADS
3 Units 2.5 hours lecture 1.5 hours lab
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 head machining, cylinder head airflow studies using the latest airflow bench practices, as well as high performance engine assembly techniques. NR
AUTO 205
ADVANCED SMOG UPDATE TRAINING
0.5 Unit 0.5 hours lecture 1 hour lab
   Recommended Preparation: AUTO 100, 102, 103, 109
California Bureau of Automotive Repair (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. NR

AUTO 207
AUTOMOTIVE ENGINEERING FUNDAMENTALS
3 Units 3 hours lecture
   Recommended Preparation: AUTO 100 and MATH 353
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. NR

AUTO 220
ALTERNATIVE PROPULSION SYSTEMS
3 Units 2.5 hours lecture 1.5 hours lab
   Recommended Preparation: AUTO 100 and 207
Study alternative propulsion systems including compressed natural gas (CNG), propane, diesel, hybrid and electric vehicle technology. Laboratory exercises include safety, operation and maintenance of hybrid, electrical and alternative propulsion vehicle systems. NR

AUTO 226
AUTOMOTIVE SERVICE CONSULTANT
2 Units 2 hours lecture
   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). NR

AUTO 227
AUTOMOTIVE SERVICE MANAGEMENT
3 Units 3 hours lecture
   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. NR

AUTO 228
ADVANCED VEHICLE PERFORMANCE
1 Unit 1 hour lecture 1 hour lab
   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. NR

AUTO 229
DIESEL TECHNOLOGY
3 Units 2.5 hours lecture 1.5 hours lab
   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. NR

AUTO 231
HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY
3 Units 2.5 hours lecture 1.5 hours lab
   Recommended Preparation: AUTO 100 and 207
The extensive study of hybrid, plug-in hybrid, and electrical vehicle powertrain systems. Laboratory exercises include safety, operation, maintenance and repair of hybrid, plug-in hybrid and electrical vehicle powertrain systems. NR

AUTO 232
DIESEL SYSTEMS TECHNOLOGY
3 Units 2.5 hours lecture 1.5 hours lab
   Recommended Preparation: AUTO 100
Covers the design, construction, operation, diagnosis, service, maintenance and repair of both mobile and stationary diesel vehicle systems and equipment. The theory, operation, service and diagnosis of diesel powered vehicles and equipment, engine control computers, fuel management systems, braking systems, powertrain, propulsion systems, and emission control systems are covered in detail. NR

AUTO 240
AUTOMOTIVE LAB
3 Units 9 hours lab
   Prerequisite: AUTO 100
Provides directed activities in the "live" automotive lab environment. Designed for students who have intermediate skill level and wish to upgrade and perfect their lab skills. Includes the use of automotive specific tools and equipment. NR

Biology

BIO 3A
GENERAL BIOLOGY I
5 Units 3 hours lecture 6 hours lab
   Transfers: CSU, UC
   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. NR
BIO 3B
GENERAL BIOLOGY II
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
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. NR

BIO 3C
BI CHEMISTRY AND MOLECULAR BIOLOGY
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 12A and BIO 3A or BIO 3AH
Recommended Preparation: Bio 22
An introduction to biochemistry and molecular biology. Included are discussions of biological molecules, energy production, metabolic pathways and regulation, genetic code and genomics, DNA replication, transcription and RNA processing, translation, and gene regulation. Laboratory activities will include chromatography, cell fractionation, centrifugation, 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. NR

BIO 4A
PRINCIPLES OF CELLULAR BIOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 1A or CHEM 2
Covers the principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, molecular genetics, classical/Mendelian genetics, cell metabolism including photosynthesis and respiration, and cellular communication. The philosophy of science, methods of scientific inquiry and experimental design are foundational to the course. Intended for biology majors completing the Biology AS-T degree; may also be taken by Biology A.S. majors. NR

BIO 4B
PRINCIPLES OF ORGANISMAL BIOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: BIO 4A - Principles of Cellular Biology
A survey of the basic biology and diversity of unicellular and multicellular organisms. It emphasizes general biological principles, classification, structure, function and evolutionary adaptations of organisms (including plants, fungi, animals, and unicellular organisms) to their environments. Intended for biology majors completing the Biology AS-T degree; may also be taken by Biology A.S. majors. NR

BIO 11
HUMAN ANATOMY
4 Units 2 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: BIO 20 or one year of high school biology with a grade of "C" or better
Analysis of 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. NR

BIO 12
HUMAN PHYSIOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 108 or one year of high school chemistry with a grade of "C" or better
Focuses on the functioning and integration of the major organ systems to maintain homeostasis within the human body. Emphasis will be placed on the cardiovascular, reproductive, urinary, lymphatic, integument, endocrine, respiratory, digestive, and nervous systems. Additional content covered includes skeletal muscle physiology, bone physiology, metabolism, water-salt balance, and thermoregulation. It is designed for biology majors and health pre-professionals. NR

BIO 15
GENERAL MICROBIOLOGY
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: BIO 20 or one year of high school biology with a grade of "C" or better
Recommended Preparation: BIO 11 and 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. NR

BIO 19
MARINE BIOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation: College-level introductory biology course (BIO 20)
Study of marine life including the description, distribution and natural history of marine organisms and their ecological relationships with the marine environment. 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. NR

BIO 20
INTRODUCTION TO BIOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Integrative 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. NR

BIO 22
HUMAN GENETICS
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

**BIO 28**

**PLANTS AND HUMAN AFFAIRS**

*3 Units 3 hours lecture*

**Transfers:** CSU, UC

**Recommended Preparation:** BIO 20

An introduction to the importance of plants and fungi, and their products, in the shaping of human affairs and civilization. The history of agriculture, the utilization of plant and fungal products, and current environmental and social issues surrounding agriculture, including genetic engineering will be covered. Plants, fungi and their products are examined during class demonstrations and exercises. For non-science majors. NR

**BIO 30**

**HUMAN BIOLOGY**

*3 Units 3 hours lecture*

**Transfers:** CSU, UC

**Recommended Preparation:** BIO 20

A general introduction to human structure, functions, genetics, evolution, and ecology. The human organism is examined from the basic cellular level and genetics, through organ systems, to interaction with the outside world. Pertinent health topics such as nutrition, exercise and modern medical advances are also discussed. NR

**BIO 31**

**BIOLOGY OF PLANTS**

*4 Units 3 hours lecture 3 hours lab*

**Transfers:** CSU, UC

**Recommended Preparation:** BIO 20

Introduction to the structure, function, development, heredity, physiology, evolution, and ecology of vascular plants and bryophytes. Historical and modern uses of plants will be discussed with particular emphasis on pharmaceutical and agricultural applications. Laboratory exercises include greenhouse and field trip activities. NR

**BIO 40**

**EVOLUTION**

*3 Units 3 hours lecture*

**Transfers:** CSU, UC

An introduction to the theory of evolution. Emphasis will be placed on both the theory of evolution and the evidence for 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. NR

**BIO 43**

**ANIMAL BEHAVIOR**

*3 Units 3 hours lecture*

**Transfers:** CSU, UC

**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. NR

**BIO 45**

**BIOLOGY OF HUMAN DISEASE**

*3 Units 3 hours lecture*

**Transfers:** CSU, UC

**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. NR

**BIO 49**

**RESEARCH IN BIOLOGY AND BIOCHEMISTRY A**

*1.5 Units 0.5 hour lecture 3 hours lab*

**Transfers:** CSU, UC

**Prerequisite:** BIO 3A

Provides a foundation for laboratory and/or field experience for advanced students in the biological sciences. Focuses on application of the scientific method through hypothesis generation and experimental design. Students will learn good laboratory practices, equipment use and care, and standard laboratory safety procedures and bioethical concerns associated with research. NR

**BIO 50**

**RESEARCH IN BIOLOGY AND BIOCHEMISTRY B**

*1.5 Units 0.5 hour lecture 3 hours lab*

**Transfers:** CSU, UC

**Prerequisite:** BIO 49

Provides advanced laboratory and field experience for students in the biological sciences. Continues the student's research experience with explicit laboratory and/or fieldwork focusing on equipment use and care, data collection, analysis, and interpretation, verbal and written presentation of results, and standard laboratory safety procedures and bioethical concerns associated with research (formerly BIO 150). NR

**BIO 104**

**FORENSIC BIOLOGY**

*4 Units 3 hours lecture 3 hours lab*

**Transfers:** CSU

**Recommended Preparation:** BIO 20

An introduction to the profession of forensic science. Provides a hands-on approach to analysis from the crime scene to the crime laboratory. Includes practical lab study designed to reinforce important forensic, scientific and investigative skills. Class will be supported by guest speakers from the field. NR

**BIO 110**

**HUMAN ANATOMY DISCUSSION**

*1 Unit 1 hour lecture*

**Transfers:** CSU

**Corequisite:** BIO 11

This discussion course affords students enrolled in BIO 11, Human Anatomy, the opportunity to develop background information, problem solving, extend discussion and exchange ideas concerning human structure. Discussion focuses on anatomical components and other key topics covered in BIO 11 as well as background information not generally covered in lecture. Designed to help students succeed in their study of human anatomy. NR

**BIO 112**

**PATHOPHYSIOLOGY**

*3 Units 3 hours lecture*

**Transfers:** CSU

**Prerequisite:** BIO 12

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. NR

**BIO 113**
**HUMAN ANATOMY AND PHYSIOLOGY**
*4 Units 3 hours lecture 3 hours lab*
Transfers: CSU
Examines the relationships between human anatomical and human physiological systems. The laboratory will include dissection. This course does not meet the requirements of neither anatomy nor physiology for nursing students. NR

**BIO 120**
**HUMAN PHYSIOLOGY DISCUSSION**
*1.5 Units 1.5 hours lecture*
Transfers: CSU
Corequisite: BIO 12
Designed to afford students enrolled in BIO 12, Human Physiology, the opportunity to develop background information, problem solving, extend discussion and exchange ideas concerning the function and integration of human organ systems. Discussions focus on physiological components and other key topics covered in BIO 12, as well as background information not generally covered in the lecture. Designed to help students succeed in their study of human physiology. NR

**BIO 210**
**BASICS OF BIOLOGY A**
*1.5 Units 1.5 hours lecture*
Corequisite: BIO 3A
Consists of the development of background information, problem solving, and extended discussions to help students succeed in their study of general biology. NR

**BIO 211**
**BASICS OF BIOLOGY B**
*1.5 Units 1.5 hours lecture*
Corequisite: BIO 3B
Consists of the development of background information, problem solving, and extended discussions to help students succeed in their study of general biology. NR

**BIO 230**
**COASTAL ECOSYSTEMS FIELD STUDIES**
*1 Unit 0.5 hour lecture 1.5 hours lab*
Study of the ecology of the coastal environments. Includes origin of estuaries, morphology and parameters of estuarine basins, estuarine shores and substrates, and flora and fauna identification. Taught in the field. NR

**BIO 231**
**ISLAND ECOSYSTEMS FIELD STUDIES**
*1 Unit 0.5 hour lecture 1.5 hours lab*
Introduction to the ecology and natural history of selected island ecosystems. Direct observations and experiments in the field are complemented by lectures and discussions of the physical environment; natural history and ecology of the flora and fauna; and community structure. Taught in the field. NR

**BIO 232**
**MOUNTAIN ECOSYSTEMS FIELD STUDIES**
*1 Unit 0.5 hour lecture 1.5 hours lab*
Introduction to relationships among plants, animals and physical environments that characterize mountain habitats. Topics will include natural history, biology and ecology of the flora and fauna, and community structure and analysis. Introductory lectures complement direct field observations and field experiments, as well as the collection, analysis and interpretation of data. NR

**BIO 233**
**DESERT ECOSYSTEMS FIELD STUDIES**
*1 Unit 0.5 hour lecture 1.5 hours lab*
An introduction to the relationships among plants, animals and physical environments that characterize desert habitats. Topics will include natural history, biology and ecology of the flora and fauna and community structure and analysis. Introductory lectures complement direct field observations and field experiments, as well as the collection, analysis and interpretation of data. It is intended for both science majors and non-majors. NR

**BIO 234**
**EXTENDED ISLAND ECOSYSTEMS FIELD STUDIES**
*2 Units 1 hour lecture 3 hours lab*
Explores the natural history and ecology of Island Ecosystems. Includes an overview of the climate, evolutionary history, biogeography, community structure, natural history, and ecology of the plants, mammals, birds and insects of islands. Students also have the opportunity to gain an understanding of basic field techniques. Involves field study with required preliminary class meetings at Saddleback College. Students are responsible for transportation and costs associated with travel, camping equipment, and related expenses. NR

**BIO 235**
**EXTENDED MOUNTAIN ECOSYSTEM FIELD STUDIES**
*2 Units 1 hour lecture 3 hours lab*
Explores the natural history and ecology of mountain ecosystems. Includes an overview of the climate, evolutionary history, biogeography, community structure, natural history, and ecology of the plants, mammals, birds and insects of mountain ranges. Students also have the opportunity to gain an understanding of basic field techniques. Includes field study with required preliminary class meetings at Saddleback College. Students are responsible for transportation and costs associated with travel, camping equipment, and related expenses. NR

**Business**

**BUS 1**
**INTRODUCTION TO BUSINESS**
*3 Units 3 hours lecture*
Transfers: CSU, UC
Business concepts and practices; develops knowledge, thinking skills, and related business skills with regard to forms of ownership, management, finance, marketing, production, competition, technologies, global business, entrepreneurship, legal considerations, controls through which business organizations operate and other aspects of business. NR
BUS 1H
HONORS INTRODUCTION TO BUSINESS
3 Units 3 hours lecture
Transfer: CSU, UC
Provides 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 economies and its effects on people. The honors course is enriched by smaller class size, field work, and a capstone project. Credit may be earned for BUS 1 or 1H, but not both. Letter grade only. NR

BUS 13
LEGAL ENVIRONMENT AND BUSINESS LAW
3 Units 3 hours lecture
Transfer: CSU, UC
Fundamental legal principles pertaining to business transactions, legal processes, and law as an instrument of social and political control in society. Topics include sources of law and government regulations, ethics, contracts, torts, crime, agency and employment law, dispute resolution in and out of court, real and personal property, intellectual property, environmental law, bankruptcy, and business organizations. NR

BUS 31
TEXTILES
3 Units 2 hours lecture 3 hours lab
Transfer: CSU, UC
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. NR

BUS 102
ORAL BUSINESS COMMUNICATIONS
3 Units 3 hours lecture
Transfer: CSU
Students master workplace oral communication skills and concepts, including the communication process, from organizational theory to culturally-aware interpersonal communications, strategies for critical listening, interpersonal communication, team work, meeting, and leadership skills, interviewing, business etiquette, nonverbal communications, and reduction of communication anxiety. Students apply effective communication strategies and skills to the real business world. Students create and deliver business-based information and persuasive presentations using presentation software, including locating, evaluating, synthesizing, outlining, and delivering; uses databases and other appropriate sources. NR

BUS 103
BUSINESS ENGLISH
3 Units 3 hours lecture
Transfer: CSU
The basics of English grammar, punctuation, and sentence structure needed for clear business writing. Topics will include: the structure of English (words, phrases, clauses, and sentences), sentence structure problems, agreement errors, commonly confused and misused words, punctuation and spelling. NR

BUS 104
BUSINESS COMMUNICATION
3 Units 3 hours lecture
Prerequisite: BUS 103 or ENG 1A
Recommended Preparation: GMA 108
Transfer: CSU
Principles and styles of effective written business communications. Analyze business case studies to create appropriate business documents, such as letters, memorandums, reports, proposals, requests for proposals (RFPs), instructions, employment-related documents, as well as email and other online written business communications. Develop planning, organizing, and outlining skills as well as editing proficiency. Improve ethical, cultural, gender, and other awareness, grammar skills, writing style, and formatting skills. Participate in team and online assignments. NR

BUS 105
SOCIAL MEDIA MARKETING
3 Units 3 hours lecture
Transfer: CSU
Social media implications, opportunities, and challenges for business and communications professions. Students will participate in content creation; practical, ethical, and effective use of an array of social media sites, applications, and resources. They will evaluate the impact, effectiveness, and design of various elements of social media marketing. NR

BUS 106
LEGAL ASPECTS OF ENTREPRENEURSHIP
2 Units 2 hours lecture
Transfer: CSU
Examines the legal implications involved in the creation, acquisition, and/or sale of a new business, profit or non-profit. Specific legal theory covering business formation, contract and lease negotiation, enforcement, protection of intellectual property, cyber law, employment law, contracts, and regulatory compliance including tax, environmental and labor issues. NR

BUS 107
INNOVATION AND NEW PRODUCT DEVELOPMENT
3 Units 3 hours lecture
Transfer: CSU
Leads to in-depth understanding of the requirements, issues (including ethics and sustainability), and tools involved in the planning and development of new products and services. Addresses determination of new product development strategies based on market needs. Students examine variables including number and diversity of products, product innovations, product design, prototyping, and testing for form, function, and the marketplace. NR

BUS 108
SOCIAL ENTREPRENEURSHIP
3 Units 3 hours lecture
Transfer: CSU
Recommended Preparation: BUS 160
The concepts, skills, and structures needed to develop and improve the effectiveness of social enterprises that address challenging problems in areas such as poverty, hunger, education, the environment, health, and others. Topics include the field of social entrepreneurship, the challenge and the passion; generating innovation; business models used by social entrepreneurs; mechanics and realities of planning, starting and/or
BUS 109
E-COMMERCE MARKETING
3 Units 3 hours lecture
Transfers: CSU
Explores the realities and implications of electronic commerce (e-commerce) from a marketer’s perspective. Introduces a wide range of electronic commerce issues and platforms for marketers as a foundation for continuous and emerging learning in the dynamic e-commerce environment. NR

BUS 110
BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT
3 Units 3 hours lecture
Transfers: CSU
Examines business strategies that support sustainability including effects on profitability, the workforce, community relations, lowering of liability, company positioning, other areas of business, and the environment. Addresses various types of businesses and industries--established, changing, and emerging. Includes implications for entrepreneurship. Explores how businesses benefit from energy efficiencies, people and planet friendly practices, materials and products, recycling/repurposing, and other practices related to sustainability. Reviews legal and ethical issues, strategic planning, development, and measurement of policies, practices, and products that support sustainability. NR

BUS 116
PERSONAL LAW, STREET LAW
3 Units 3 hours lecture
Transfers: CSU
Law for the individual and family for lifelong decision-making. Topics include legal problems associated with family relationships, impairment of physical and mental health, property ownership, insurance coverage, employment, contracts, crime, torts, estate planning, housing, courts, finances, credit, identity theft, dispute resolution, and advocacy in the community. Emphasis is on developing awareness of the law, its history, and the impact of social and economic changes. Also listed as CTVR 116. Credit given in either area, not both. NR

BUS 120
BUSINESS MANAGEMENT
3 Units 3 hours lecture
Transfers: CSU
Active learning approach to management concepts and practices: leading, planning, organizing, directing, controlling, making decisions. Develops and improves management skills in communicating, thinking critically, motivating, identifying/using resources, making business/workplace decisions. NR

BUS 125
HUMAN RELATIONS IN BUSINESS
3 Units 3 hours lecture
Transfers: CSU
Management and development of effective human relations in business organizations. Focuses on people's responses to their work environment; creates awareness of policies and actions that prevent or resolve problems among individuals within groups; addresses effective communicating, motivating, team building skills, project management, and conflict resolution. Develops confidence and leadership; teaches methods of inquiry used in assessing management techniques; stimulates critical thinking about human organizational challenges, workforce diversity, and solutions aimed at greater productivity of individuals, groups, and customer service. Learn how to work effectively with colleagues and customers. NR

BUS 128
MARKETING
3 Units 3 hours lecture
Transfers: CSU
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. NR

BUS 136
PRINCIPLES OF RETAILING
3 Units 3 hours lecture
Transfers: CSU
Study of merchandising, marketing, management, staffing, buying, pricing, transaction/stock control, location, layout, service, e-commerce and digital marketing, consumer behavior and service, and current problems and trends as they apply to the retailing of goods and services. NR

BUS 137
PROFESSIONAL SELLING FUNDAMENTALS
3 Units 3 hours lecture
Transfers: CSU
Principles, problems, and techniques of one-on-one selling of ideas, products, and services in today's business world. Practical experience via guided role-playing with techniques for success as a sales professional. Covers psychological and social aspects of buyer motivation, critical thinking, ethics, presentation tools and skills as appropriate for personal selling. NR

BUS 138
ADVERTISING
3 Units 3 hours lecture
Transfers: CSU
Contemporary advertising for profit and non-profit organizations. Examines ethics, strategies, design approaches, electronic applications, and media selection. Elements of good copy, layout, and production of both print and electronic media, including email, e-marketing, e-retailing, web sites, and social media will be discussed. Also listed as CTVR 138. Credit given in either area, not both. NR

BUS 143
FASHION BUYING AND MERCHANDISING
3 Units 3 hours lecture
Transfers: CSU
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. NR
BUS 145
INTERNSHIP
1 Unit 1 hour lecture
Transfers: CSU
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 FASH 145. Credit given in either area, not both. NR

BUS 147
SPECIAL EVENTS COORDINATION AND PROMOTION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

BUS 148
VISUAL MERCHANDISING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

BUS 150
INTERNATIONAL BUSINESS
3 Units 3 hours lecture
Transfers: CSU
A comprehensive overview of international business focusing on U. S. and world cultural differences related to global business concepts and the issues and trends influencing global business decision-making. Includes analysis of economic, historical, cultural, social, technological, ethics and legal, environmental, educational, and language implications; emerging markets; international trade; foreign investments; financial markets; entrepreneurship; international management; and international business strategic planning issues and trends. Addresses specific import/export concepts and procedures. NR

BUS 160
ENTREPRENEURSHIP
3 Units 3 hours lecture
Transfers: CSU
Proven principles of successful entrepreneurship and the steps necessary to create and sustain a new business. Includes creation of a business plan. Practical hands-on business course designed for students interested in starting their own business or for the new business owner. Fulfills Entrepreneurship certificate and degree requirements. Students will learn opportunity assessment, target markets, financial measurement metrics, legal considerations, and operational and management issues. Benefits and risks of business ownership; management and marketing a business from an entrepreneurial perspective. Students will create a business plan and develop strategies to secure financing. NR

BUS 223
HUMAN RESOURCES AND EMPLOYMENT LAW
3 Units 3 hours lecture
Introduction to human resources procedures and employment law. Legal aspects of HR management and the challenges that affect employers are emphasized. Topics include HR procedures and employment law related to the hiring and termination processes, employee evaluations, compensation and benefits, taxes, privacy, employee contracts and employee handbook or policy manual, personnel administration, unions, and workforce diversity, training and development. NR

BUS 237
FINANCING THE ENTREPRENEURIAL BUSINESS
1.5 Units 1.5 hours lecture
Designed for entrepreneurs and future entrepreneurs as an introduction to the world of financing for new and existing businesses. Key topics include ways to find money and manage capital properly, types of financing and investors, basic guidelines of financing, principles and content of term sheets, methods to determine value of companies, and types of exit strategies. NR

BUS 260
SURVEY OF EXPORTING AND IMPORTING
3 Units 3 hours lecture
Global trade. Exporting and importing procedures and regulations. Emphasizes international agreements, global marketing, channels of distribution, pricing, contracts, roles of United States government, organizations and agencies, customs brokers, duty rates, basic laws and regulations affecting exports and imports, access, currency exchange and payment methods, tax implications, financing, letters of credit, documentation, country and commodity trade patterns, entrepreneurship. Students will research and prepare a marketing plan for a given country and an export product or service. NR

Chemistry

CHEM 1A
GENERAL CHEMISTRY
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: MATH 124 and CHEM 3 or placement through the Chemistry Challenge Exam
Corequisite: CHEM 106
Recommended Preparation: 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. NR

CHEM 1B
GENERAL CHEMISTRY
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 1A or CHEM 2, and MATH 124
A continuation of Chem 1A. Topics include equilibria, acids/bases, thermodynamics, electrochemistry, kinetics, coordination chemistry, nuclear chemistry, and qualitative analysis. NR
CHEM 2
GENERAL CHEMISTRY PREREQUISITES
5 Units 3 hours lecture 6 hours lab
   Transfers: CSU, UC
   Prerequisite: MATH 253
An algebra-based introduction to the principles of chemistry. Topics include: atomic and molecular structure, bonding, nomenclature, formulas, equations, stoichiometry, thermochemistry, gases, liquids, solids and solutions. This class is intended specifically for students pursuing an A.S-T in Chemistry; does not apply for students pursuing an A.S. in Chemistry. May be taken by students pursuing an A.S. or A.S-T in Biology. NR

CHEM 3
FUNDAMENTAL CHEMISTRY
4 Units 3 hours lecture 3 hours lab
   Transfers: CSU, UC
   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. NR

CHEM 12A
ORGANIC CHEMISTRY
5 Units 3 hours lecture 6 hours lab
   Transfers: CSU, UC
   Prerequisite: CHEM 1B
A study of the principles, theories, experimental methods, and instrumentation of organic chemistry. The course is recommended for students whose major is chemistry or a closely-related field such as biology, biochemistry or chemical engineering. Topics include the properties, reactions, synthesis, and analysis of organic compounds. The course focuses on nomenclature, chemical reactions of alkanes, alkenes, alkyl halides, alcohols, ethers, epoxides, delocalization of electrons, stereochemistry, organometallic chemistry, radicals, mass spectrometry, infrared spectroscopy, and nuclear magnetic resonance spectroscopy. NR

CHEM 12B
ORGANIC CHEMISTRY PREREQUISITES
5 Units 3 hours lecture 6 hours lab
   Transfers: CSU, UC
   Prerequisite: CHEM 12A
A continuation of CHEM 12A. Topics include properties, reactions, synthesis, and analysis of certain organic compound types, polynuclear and heterocyclic compounds, polymers, lipids, carbohydrates, amino acids, proteins and biochemical processes. NR

CHEM 13
ORGANIC CHEMISTRY PREREQUISITES
3 Units 3 hours lecture
   Transfers: CSU, UC
   Recommended Preparation: ENG 200 and 340
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. NR

CHEM 106
BASIC SCIENCE OF CHEMISTRY
2 Units 2 hours lecture
   Transfers: CSU, UC
   Recommended Preparation: CHEM 106
An examination of the underlying principles, theories, experimental methods, and instrumentation of organic chemistry. The course is recommended for students whose major is chemistry or a closely-related field such as biology, biochemistry or chemical engineering. Topics include the properties, reactions, synthesis, and analysis of organic compounds. The course focuses on nomenclature, chemical reactions of alkanes, alkenes, alkyl halides, alcohols, ethers, epoxides, delocalization of electrons, stereochemistry, organometallic chemistry, radicals, mass spectrometry, infrared spectroscopy, and nuclear magnetic resonance spectroscopy. NR

Health, nutrition, and basic laboratory techniques are included. NR

Child Development

CD 7
CHILD GROWTH AND DEVELOPMENT
3 Units 3 hours lecture
   Transfers: CSU, UC
   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 (formerly CD 107). DS 1, C-ID 110. NR

CD 15
CHILD, FAMILY, AND COMMUNITY
3 Units 3 hours lecture
   Transfers: CSU, UC
   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 (formerly CD 105). DS2 C-ID 110. NR

CD 101
PRINCIPLES AND PRACTICE OF TEACHING YOUNG CHILDREN
3 Units 3 hours lecture
   Transfers: CSU
   Recommended Preparation: CD 107 and ENG 200, 340
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. DS3, C-ID ECE 120, CAP aligned. NR

CD 110
INTRODUCTION TO CURRICULUM
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Limitation: Current proof of negative TB test result
Recommended Preparation: CD 107 and ENG 200, 340
An overview of knowledge and skills related to providing appropriate curriculum and environments for toddlers and young children. Examines the teacher’s role in supporting development by using observation and assessment in play based settings. An overview of content areas will include literacy, math, science, creative and social and emotional learning. Requires a minimum of 49.8 hours lab supervised by CA Master Teacher. DS3, C-ID 130, CAP Aligned. NR

CD 111
CHILD GUIDANCE AND COMMUNICATION
3 Units 3 hours lecture
Transfers: CSU
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. DS3. NR

CD 112
HEALTH, SAFETY, AND NUTRITION
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health, safety, and nutrition. The key components that ensure physical health, mental health, and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. DS7, C-ID 220, CAP Aligned. NR

CD 113
MATH AND SCIENCE IN EARLY CHILDHOOD
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
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. NR

CD 114
CREATIVE AND DRAMATIC ARTS IN EARLY CHILDHOOD
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
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. NR

CD 115
LITERACY IN EARLY CHILDHOOD
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
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. NR

CD 117
TEACHING IN A DIVERSE SOCIETY
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom 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 and schooling. C-ID ECE 220. CAP aligned. NR

CD 120
OBSERVATION AND ASSESSMENT
3 Units 3 hours lecture
Transfers: CSU
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 assessment methods and collaboration with families in understanding individual child development are explored. C-ID ECE 200, CAP aligned. NR

CD 121
PRACTICUM: THE STUDENT TEACHING EXPERIENCE
5 Units 3 hours lecture 6 hours lab
Transfers: CSU
Prerequisite: CD 110 and CD 120
Limitation: TB test results on file in the Student Health Center
Recommended Preparation: CD 101, 113, 114, 115, ENG 200
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. DS3  NR

CD 123
INFANT AND TODDLER DEVELOPMENT
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, ENG 200, 340
A study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. DS 4  NR

CD 125
SCHOOL-AGE BEFORE AND AFTER SCHOOL PROGRAMS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200, 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. DSS  NR

CD 127
ADULT SUPERVISION AND MENTORING
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200
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 roles and development of early childhood professionals as mentors and leaders. Satisfies the adult supervision requirement for the Child Development Permit and eligibility to apply for the California Mentor Teacher Program. DS6  NR

CD 128
ADMINISTRATION I - PROGRAMS IN EARLY CHILDHOOD EDUCATION
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200, 340
Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies and techniques needed to organize, open, and operate an early care and education program. DS6  NR

CD 129
ADMINISTRATION II - PERSONNEL & LEADERSHIP IN EARLY CHILDHOOD ED
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200, 340
Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. DS6  NR

CD 133
CARE AND EDUCATION FOR INFANTS AND TODDLERS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, 123, ENG 200 and 340
Applies current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. DS6  NR

CD 135
INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 105, 107, 110, ENG 200, 340
Introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. Observation of children will be required.  NR

CD 140
CURRICULUM AND STRATEGIES FOR CHILDREN WITH SPECIAL NEEDS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 105, 107, 110, ENG 200, 340
Covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence.  NR

CD 250
GARDENING WITH YOUNG CHILDREN
1 Unit 1 hour lecture 1 hour lab
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.  NR

Child Development and Education

CDE 124
PRESCHOOL AND EARLY PRIMARY CHILD DEVELOPMENT
3 Units 3 hours lecture
Transfers: CSU
Physical, cognitive, and social emotional development topics specifically related to children ages 3-6 years old. Includes physical and mental health including brain development; concept development in math, language, science, social studies, and the arts; creativity and problem solving; and social and emotional development and supports. Addresses indicators of typical and
CDE 126
SCHOOL AGE AND ADOLESCENT DEVELOPMENT
3 Units 3 hours lecture
Transfers: CSU
An interdisciplinary study of the physical, cognitive, social, and emotional, development of middle and adolescent child development in a diverse society. Theoretical frameworks and various contexts in which development occurs will be covered including practical implications of family and peer relationships, learning and motivation, the impact of educational systems, moral and identity development, school and work experiences, and contemporary societal issues and influences. NR

CDE 250
CA PRESCHOOL FOUNDATIONS & FRAMEWORKS - SOCIAL AND EMOTIONAL
1 Unit 1 hour lecture
Introduction to the California Preschool Learning Foundations and Frameworks: Social and Emotional Development including the strands of self, social interaction, and relationships. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. NR

CDE 253
CA PRESCHOOL FOUNDATIONS & FRAMEWORKS - MATH
1 Unit 1 hour lecture
Introduction to the California Preschool Learning Foundations and Frameworks in the domain of mathematics including strands of number sense, algebra and functions, measurement, geometry, and mathematical reasoning. Provides strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. NR

CDE 254
CA PRESCHOOL FOUNDATIONS & FRAMEWORKS - VISUAL ARTS
1 Unit 1 hour lecture
Introduces the California Preschool Learning Foundations and Frameworks in the domain of visual arts including artistic expression and response, and skills using various art mediums. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. NR
domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. NR

CDE 259
CA PRESCHOOL FOUNDATIONS AND FRAMEWORKS - SCIENCE
1 Unit 1 hour lecture
Introduces the California Preschool Learning Foundations and Frameworks: Science. Includes the strands of scientific inquiry, physical, life, and earth sciences and provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers. NR

CDE 260
PRINCIPLES OF TEACHING TRANSITIONAL KINDERGARTEN
3 Units 3 hours lecture
Developmentally, culturally, linguistically appropriate care and education practices for working with children in transitional kindergarten classrooms. Topics include communication and guidance language to promote self-regulation, self-concept, and concept development, classroom management, collaboration with, and supervision of parents in the classroom, skills and abilities related to utilizing district selected curriculum in developmentally appropriate ways and the expectations placed upon a transitional kindergarten and/or early primary teacher. NR

CDE 261
CHALLENGING BEHAVIORS
3 Units 3 hours lecture
Recommended Preparation: CD 7 Child Growth and Development OR CDE 124 Preschool and Early Primary Development

An overview of the developmental, environmental, and cultural factors that impact the behavior of young children including family stress, interaction and guidance methods, child temperament, exposure to violence, attachment disorders, special needs, and others. Topics include observation of children, proactive intervention and prevention techniques, creation of positive environments to encourage appropriate social behaviors, and how to address many types of behaviors including those that are aggressive, antisocial, disruptive, destructive, attention-seeking, and/or dependent. NR

CDE 262
TOOLS AND METHODS FOR TK- EARLY PRIMARY ASSESSMENT
3 Units 3 hours lecture
Recommended Preparation: CD 7 Child Growth and Development OR CDE 124 Preschool and Early Primary Child Development

An overview of Transitional Kindergarten (TK) assessment including the need to ensure that assessments are developmentally appropriate, aligned with their stated purposes, and administered over time and in a variety of settings. Includes suggestions for collecting and organizing assessment, provides information on Response to Instruction and Intervention (RtI2), and highlights the importance of effective ongoing assessment in monitoring student progress and providing appropriate tiered intervention based on students' needs. Also covers strategies for differentiating instruction to meet the assessed needs of children and suggestions for sharing information about student progress with families. NR

CDE 263
TRANSITIONAL KINDERGARTEN - REFLECTIVE PRACTICE
2 Units 2 hours lecture
Prerequisite: CDE 260 or 262
Limitation: Currently employed as a TK Teacher in an authorized LEA

Recommended Preparation: Students should have successfully completed all courses in the TK certificate prior to enrolling: CDE 124, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, and 262.

Described for teachers currently assigned to teach in a transitional kindergarten classroom, this course offers a guided pathway to reflective practice. Developmental observations, intentional teaching, differentiated instruction, self-assessment and visual documentation of classroom learning will be covered. NR

CDE 264
CLINICAL PRACTICE - STUDENT TEACHING IN TK CLASSROOM
2 Units 1 hour lecture 3 hours lab
Prerequisite: CDE 260 OR 262
Recommended Preparation: This a capstone course and is recommended to be taken after all other TK certificate courses have been completed.

Designed for students at the end of their Transitional Kindergarten certificate program, student teachers will participate in 49.8 hours of supervised clinical practice in a transitional kindergarten classroom demonstrating developmentally appropriate teaching competencies, making connections between theory and practice and professional teaching 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. NR

Chinese

CHI 1
ELEMENTARY CHINESE
5 Units 5 hours lecture
Transfers: CSU, UC
Corequisite: CHI 901
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. NR

CHI 2
ELEMENTARY CHINESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: CHI 1 or two years of high school Chinese
Corequisite: CHI 902

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. NR
CHI 3
INTERMEDIATE CHINESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: CHI 2 or three years of high school Chinese
Corequisite: CHI 903
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Chinese cultures. NR

CHI 4
INTERMEDIATE CHINESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: CHI 3 or four years of high school Chinese
Corequisite: CHI 904
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. NR

CHI 21
INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S.
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: College-level reading ability
Provides 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. NR

CHI 901
CHINESE LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: CHI 1 Requires concurrent enrollment in Chinese 1.
Enhances and provides practice in skills learned in Chinese 1 course. NR

CHI 902
CHINESE LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: CHI 2 Requires concurrent enrollment in Chinese 2.
Enhances and provides practice in skills learned in Chinese 2 course. NR

CHI 903
CHINESE LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: CHI 3 Requires concurrent enrollment in Chinese 3.
Enhances and provides practice in skills learned in Chinese 3 language courses. NR

CHI 904
CHINESE LANGUAGE LAB
0.25 Unit 1 hour learning center
Enhances and provides practice in skills learned in Chinese 4 language courses. NR

Cinema, Television, Radio
CTVR 1
MASS MEDIA AND SOCIETY
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

CTVR 2
HISTORY AND APPRECIATION OF TELEVISION BROADCASTING
3 Units 3 hours lecture
Transfers: CSU, UC
Evaluation of television broadcasting as a medium of mass communication through exploration of its history, creative techniques, and relationship to society. Exploration of historical development and analysis of major works (formerly CTVR 102). NR

CTVR 3
THE HISTORY AND APPRECIATION OF AMERICAN CINEMA
3 Units 3 hours lecture
Transfers: CSU, UC
Evaluation of American Cinema 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. NR

CTVR 4
AESTHETICS OF CINEMA
3 Units 3 hours lecture
Transfers: CSU, UC
Critical evaluation of principles, techniques and their implication in narrative, documentary and experimental films. Students will view and critique films of various movements, analyzing the appearance of film space and film time. The topics covered include cinematography, mise-en-scene, editing, sound and special effects. NR

CTVR 5
HISTORY AND APPRECIATION OF INTERNATIONAL CINEMA
3 Units 3 hours lecture
Transfers: CSU, UC
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 European, Latin, and Asian origins. NR

CTVR 7
CROSS CULTURAL CINEMA
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

CTVR 9  
WOMEN IN CINEMA AND TELEVISION  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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.  NR

CTVR 31  
FILM PRODUCTION I  
3 Units 3 hours lecture 1 hour lab  
Transfers: CSU, UC  
Prerequisite: CTVR 101  
Single-camera style narrative film production from pre-production and shooting to post-production. Skills specifically for narrative film production including language of cinematography, telling a visual story, character development, blocking and composition, basic lighting techniques and audio acquisition techniques, and master scene technique.  NR

CTVR 32  
FILM PRODUCTION II  
3 Units 3 hours lecture 1 hour lab  
Transfers: CSU, UC  
Prerequisite: CTVR 31  
Recommended Preparation: CTVR 40  
Production of short films to compete in film festivals. Emphasis on professional level films and personal development of skills. Single-camera narrative film style production with advanced digital film production equipment and non-linear editing programs.  NR

CTVR 40  
TELEVISION AND FILM SCRIPTWRITING I  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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.  NR

CTVR 42  
TELEVISION AND FILM DIRECTING  
3 Units 3 hours lecture 1 hour lab  
Transfers: CSU, UC  
Prerequisite: CTVR 101  
Specialized training in the elements of directing for film and television, including camera, directing talent, blocking and directing in post-production.  NR

CTVR 100  
INTRODUCTION TO CINEMA, TELEVISION, AND RADIO  
3 Units 3 hours lecture  
Transfers: CSU  
Exploration of the history and organization of the radio, TV, and film industry. Overview of the technologies and organizational structure of the industry with emphasis on career opportunities in radio, TV, and film. Investigation of skills needed to be successful in broadcasting and film business.  NR

CTVR 101  
VIDEO PRODUCTION BASICS  
3 Units 3 hours lecture 1 hour lab  
Transfers: CSU  
Recommended Preparation: CTVR 101  
Introduction to video production including camera, audio, lighting, and editing. Development of an understanding of video technology and vocabulary. Application of video techniques and tools such as cameras, lights, audio, and non-linear editing. Application of aesthetic theory to student productions.  NR

CTVR 104  
COLD READING AND INTERVIEW TECHNIQUES  
3 Units 3 hours lecture  
Transfers: CSU  
Acquisition of cold reading and interview techniques for performance related positions in film, television and radio.  NR

CTVR 106  
VIDEO JOURNALISM  
3 Units 3 hours lecture 1 hour lab  
Transfers: CSU  
Recommended Preparation: JRN 2 and CTVR 101  
Incorporates print and broadcast techniques to produce multimedia pieces for the web, tablets and emerging platforms with a focus on video journalism. Topics include multimedia storytelling that incorporates shooting and editing video, recording and editing sound, writing, and still photographs. An emphasis will be placed on journalistic, documentary-style video storytelling for the news media. Also listed as JRN 106. Credit given in either area, not both.  NR

CTVR 108  
INTRO TO PODCASTING AND AUDIO STORYTELLING  
3 Units 2 hours lecture 3 hours lab  
Transfers: CSU  
Recommended Preparation: JRN 2 or CTVR 111  
Introduction to all aspects of audio storytelling and podcasting. Students will produce content in the form of podcasts, live and pre-recorded talk shows, radio documentaries, newscasts, broadcast news spots, and emerging formats. Basic writing for broadcast, audio storytelling and editing will be covered. Ethical and legal aspects of broadcast communication and radio journalism are also covered. An emphasis will be placed on producing content for public radio. Work will be produced for distribution on campus news media outlets. Also listed as JRN 108. Credit given in either area, not both.  NR

CTVR 110  
AUDIO PRODUCTION  
3 Units 3 hours lecture 1 hour lab  
Transfers: CSU  
Introduction to the basic principles and techniques of acquiring, developing, and producing material for various audio applications
including: radio, internet, and other forms of media production. NR

CTVR 111
AUDI O AND SOUND DESIGN FOR TELEV ISIO N AND FILM
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
An advanced course in audio-production and sound design techniques used for radio, television, film, and new media. Course offers students hands-on experience using digital audio equipment. Applications and techniques will be discussed and demonstrated in the areas of recording, mixing, effects, and mastering. Audio terminology and current equipment technology will be applied to pre-production, production, and post-production. NR

CTVR 113
RADIO BROADCASTING
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: Completion of or concurrent enrollment in CTVR 110
Development of "on-air" skills for a variety of radio formats. Exploration of radio career opportunities in programming, promotion, news, sales, and music industry relations. Basic elements of radio broadcasting, including station organization, music and talk programming formats, promotions, sales, announcing, and FCC regulations. Preparation for advanced course and participation in actual on-air experiences at KSBR and OC Rock Radio. NR

CTVR 114
RADIO STATION ACTIVITIES
2 Units 2 hours lecture 1 hour lab
Transfers: CSU
Recommended Preparation: CTVR 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. NR

CTVR 115
ADVANCED RADIO PERFORMANCE AND STUDIO OPERATIONS
2 Units 2 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: CTVR 113
Provides students with advanced practical instruction in broadcast and internet radio performance, regulations, studio equipment, and software. Students will have opportunity to hold live and recorded air shifts on the college radio stations. NR

CTVR 124
TELEVISION PRODUCTION I
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
A hands-on course in producing, directing, and shooting television shows. Extensive studio experience through 3-camera shooting, using all crew positions as well as field production. Projects will be broadcast on Cox Channel 39. NR

CTVR 125
TELEVISION PRODUCTION II
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: CTVR 124
An in-depth course emphasizing 3-camera studio and single-camera field production. Producing professional-level television shows for marketing and distribution. NR

CTVR 128
TELEVISION AND RADIO NEWS
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Fundamental hands-on skills for gathering, writing, reporting and producing news for broadcast media. NR

CTVR 129
DOCUMENTARY PRODUCTION
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
A hands-on production course focusing on documentary projects. Investigation of various styles of documentaries and production of documentary films. NR

CTVR 138
ADVERTISING
3 Units 3 hours lecture
Transfers: CSU
Contemporary advertising for profit and non-profit organizations. Examines ethics, strategies, design approaches, electronic applications, and media selection. Elements of good copy, layout, and production of both print and electronic media, including email, e-marketing, e-retailing, web sites, and social media will be discussed. Also listed as BUS 138. Credit given in either area, not both. NR

CTVR 140
TELEVISION AND FILM SCRIPTWRITING II
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: CTVR 40
Comprehensive script writing from initial concept to final product including character development, 3-act story structure, dialogue and narrative in a middle- to feature-length format. NR

CTVR 151
NON-LINEAR EDITING I
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Introduction to the aesthetics and physical elements of editing on industry standard digital non-linear editing systems including Adobe Premiere and Final Cut Pro. Application of editing skills to different types of media production. NR

CTVR 191
VOICE-OVER AND ANNOUNCING
3 Units 3 hours lecture
Transfers: CSU
Development of effective radio and television performance techniques stressing skills in narration, dubbing, and voice-over for industry, education, entertainment and commercials. NR
CTVR 233
FILM PRODUCTION III
3 Units 3 hours lecture 1 hour lab
Prerequisite: CTVR 32
Recommended Preparation: CTVR 42, 140, 262, 264
Advanced course focusing on producing large-scale narrative films for film festivals, using professional filmmaking tools including RED Digital Cinema. Acquisition of specialized skills in the pre-production, production and post-production of the picture. NR

CTVR 251
NON-LINEAR EDITING II
3 Units 3 hours lecture 1 hour lab
Prerequisite: CTVR 151
Comprehensive non-linear post-production techniques. Emphasis on the integration of picture editing, special digital effects, animation and sound design for various media formats. NR

CTVR 253
DIGITAL SPECIAL EFFECTS
3 Units 3 hours lecture 1 hour lab
Prerequisite: CTVR 151
Introduction to creating digital special effects in the non-linear editing suite, using state-of-the-art special effects software including After Effects. Application of graphic images in digital video projects with techniques including key-frame animations, text effects, visual effect filters, and compositing. NR

CTVR 260
PRODUCTION DESIGN FOR FILM AND TELEVISION
2 Units 2 hours lecture
Art and craft of designing for film and television including set design, set dressing, wardrobe, props, and general stagecraft. Investigation of general approaches to production design and art direction as well as safety. NR

CTVR 262
PRODUCTION MANAGEMENT
3 Units 3 hours lecture
Role of the producer, production manager, coordinator and assistant director through the pre-production, production, and post production phases. Emphasis on script breakdown, crew selection and hiring practices, industry work rules, production procedures, safety requirements and legal issues. NR

CTVR 264
CINEMATOGRAPHY
2 Units 1.5 hours lecture 1.5 hours lab
Prerequisite: CTVR 101
Introduction to the art and science of lighting for the camera. Proper set-up, identification, usage, and effects of lighting needed to create dramatic visual images. Relationship of lighting to the camera, exposure, shutter speed, ISO ratings, and filters. NR

CTVR 266
SCRIPT SUPERVISING FOR FILM AND TELEVISION
3 Units 3 hours lecture 1 hour lab
Prerequisite: CTVR 101
Theory and practice of script supervising for film and television production. Techniques of continuity, timing, script breakdown, edit logs and editing notes for feature films, television shows, commercials, shorts, infomercials and documentaries. NR

CTVR 280
CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS
3 Units 3 hours lecture
Recommended Preparation: CTVR 31 or 110 or 124 or 290 or 291
Training for job search and on the job skills needed to work successfully in any professional setting. Job skills in a professional working environment, such as a radio station, television production company, talent agency, or film studio. Development of a job searching strategy and effective interview skills. NR

CTVR 290
ACTING FOR THE CAMERA I
3 Units 3 hours lecture 1 hour lab
An on-camera process class that develops technical and performance skills specific to film and television. NR

CTVR 291
ACTING FOR THE CAMERA II - CREATING A CHARACTER
3 Units 3 hours lecture 1 hour lab
An on-camera process class that develops technical skills and acting skills specific to the mediums of film and television. Using Meisner and Hagen techniques to create the reality of doing while working on immediacy, conditioning forces, character action and particularization. NR

Computer and Information Management
Includes the following prefixes: CIM, CIMA, CIP, CIMS & CIMW

CIM 1
COMPUTER INFORMATION SYSTEMS
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Examination of computer information systems and their role in business including computer hardware and software, communications and networking concepts, programming techniques, e-commerce, ethics and security, database management systems, Internet usage, and system and application software. Students apply these concepts and methods through hands-on projects to develop computer-based solutions to business problems. NR

CIM 10
INTRODUCTION TO INFORMATION SYSTEMS
3 Units 3 hours lecture
Transfers: CSU, UC
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 software and an introduction to the Internet. Provides the experience necessary to recognize the major capabilities available in each software application and how the software applications work together in an integrated
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NR: Not Required

Transfers: CSU

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.

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.

Recommended Preparation: CIM 121B

Improves keyboarding speed and accuracy. Expands use of word processing command keys and format features to produce complex memorandums, letters, tables, bound and unbound reports, and job application documents.

Focuses on the use of computer-based word processing software. Covers creating, editing, and formatting personal and business documents.

Focuses on the use of computer-based word processing software and/or applications. Covers creating, editing, and formatting personal and business documents.

Focuses on using computer-based word processing applications software. Recommended for students who possess basic word processing skills.

Provides information and training in the use of computer-based spreadsheet software for business applications. Workbooks will be produced for a variety of applications.

Entry-level course provides beginning information and training in the use of computer-based spreadsheet software for business applications.

Provides information and training in the use of computer-based spreadsheet software for business applications.

Covers creating, editing, and formatting personal and business documents (formerly CIM 214A).

Covers creating, editing, and formatting personal and business documents (formerly CIM 214B).

Covers creating, editing, and formatting personal and business documents (formerly CIM 216A).

Covers creating, editing, and formatting personal and business documents (formerly CIM 216B).
CI MA 106
DATABASE - ACCESS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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 (formerly CIM 218). NR

CI MA 108
BUSINESS PRESENTATIONS - POWERPOINT
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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 (formerly CIM 230). NR

CI MA 202
ADVANCED WORD PROCESSING - WORD
3 Units 3 hours lecture 1 hour lab
Recommended Preparation: CI MA 102 or 283E
Develops competencies in the advanced topics of word processing software. Students will learn to create reusable content and build documents using reusable content; revise documents using markup tools; create, apply, and modify table styles; sort tables; work with nested tables; use formula fields in tables; create, manage and protect forms; work with long documents; create index, bookmarks, table of contents, and table of figures; use linking and embedding objects; create and edit macros; and use advanced mail merge features. NR

CI MA 204
ADVANCED SPREADSHEETS - EXCEL
3 Units 3 hours lecture 1 hour lab
Recommended Preparation: CI MA 104 or CI MA 283F
Develops competencies in the advanced topics of spreadsheet software. Create PivotTables and PivotCharts. Use advanced specialized math, statistical, logical, financial and lookup functions. Create macros, templates and styles and prepare workbooks for distribution. Use collaboration tools, data analysis, solver, and scenario features. Audit worksheets. NR

CI MA 206
ADVANCED DATABASE - ACCESS
3 Units 3 hours lecture 1 hour lab
Recommended Preparation: CI MA 106 or CI MA 283H
Develops competencies in the advanced topics of database software. Learn to validate data, normalize data tables, use analysis and design tools, and export and import data. Create advanced action, parameter, append, delete and crosstab queries. Perform data mining with PivotTables. Create advanced forms and reports. Create macros and write SQL statements. Encrypt/decrypt databases and improve database performance. NR

CI MA 212
MANAGING PROJECTS WITH MICROSOFT PROJECT
3 Units 3 hours lecture 0.5 hour lab
Learn to create a complete project schedule with tasks and task relationships. Edit and organize a project, assign resources to the tasks, and use Project views to get information. 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; format and print views, Gantt charts, calendars, and reports; and track the completion of tasks in the project (formerly CIM 221). NR

CI MA 223A
COMPUTERIZED ACCOUNTING - QUICKBOOKS--BEGINNING
1.5 Units 1.5 hours lecture 0.5 hour lab
Recommended Preparation: CI MA 100A
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 (formerly CIM 223A). NR

CI MA 223B
COMPUTERIZED ACCOUNTING - QUICKBOOKS--ADVANCED
1.5 Units 1.5 hours lecture 0.5 hour lab
Recommended Preparation: CI MA 223A
Provides training in advanced business accounting procedures in QuickBooks using the Windows environment. Includes inventory setup, employee and payroll setup, sales tax setup, estimates, time tracking, pass through expenses, and adjustment and year-end procedures (formerly CIM 223B). NR

CI MA 283A
OFFICE SKILLS--OFFICE PROCEDURES
2.5 Units 2.5 hours lecture
Prepares students to work efficiently in today's offices. Topics include characteristics of a successful employee, organization and time management, written, oral, and interoffice communications, records management, planning meetings, arranging for business travel, career advancement, and business etiquette (formerly CIM 213A). NR

CI MA 283B
OFFICE SKILLS--KEYBOARDING
0.5 Unit 0.5 hour lecture 1 hour lab
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 (formerly CIM 213B). NR

CI MA 283D
OFFICE SKILLS--WINDOWS
0.5 Unit 0.5 hour lecture 1 hour lab
Entry-level course introduces the fundamentals of the Windows operating system. Topics include the desktop, manipulating Windows, using Help, launching applications, managing files and folders with Explorer and My Computer, and handling disk maintenance (formerly CIM 213D). NR
CI MA 283E
OFFICE SKILLS--WORD PROCESSING (WORD)
0.5 Unit 0.5 hour lecture 1 hour lab
Entry-level course provides 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 introduced (formerly CIM 213E). NR

CI MA 283F
OFFICE SKILLS--SPREADSHEETS (EXCEL)
0.5 Unit 0.5 hour lecture 1 hour lab
Entry-level course provides beginning information and training in the use of computer-based spreadsheet software for business applications. Spreadsheet worksheets will be produced for a variety of applications (formerly CIM 213F). NR

CI MA 283G
OFFICE SKILLS--DESKTOP PRESENTATION FOR BUSINESS
(PowerPoint NT)
0.5 Unit 0.5 hour lecture 1 hour lab
Entry-level course provides beginning information and training in the use of desktop presentation software for business applications. Students create, modify, and enhance desktop presentations (formerly CIM 213G). NR

CI MA 283H
OFFICE SKILLS--DATABASE (ACCESS)
0.5 Unit 0.5 hour lecture 1 hour lab
Entry-level course provides 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 (formerly CIM 213H). NR

CI MA 283J
OFFICE SKILLS--DESKTOP PUBLISHING (PUBLISHER)
0.5 Unit 0.5 hour lecture 1 hour lab
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 (formerly CIM 213J). NR

CI MA 283K
OFFICE SKILLS--BUSINESS EMAIL (OUTLOOK)
0.5 Unit 0.5 hour lecture 1 hour lab
Entry-level course to provide beginning information and training in the use of email software. Covers sending and receiving email messages, managing contacts, and business email etiquette. Provides instruction in using Calendar for scheduling appointments, planning meetings, scheduling events, and tasks feature. NR

CI MA 288
DATABASE REPORTING
3.5 Units 3 hours lecture 1.5 hours lab
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 (formerly CIM 288). NR

CI MN 100A
COMPUTER OPERATING SYSTEMS - WINDOWS--BEGINNING
1.5 Units 1.5 hours lecture
Transfers: CSU
Recommended Preparation: CIMN 100A
Develop skills including manipulating files and folders utilizing Windows file management features. Competency will be gained using Windows supplied programs to create, save, and print files. The ability to customize file and folder management and the desktop will be covered. Ability to manage computer security will be discussed. In addition, students will develop proficiency in managing and using Internet Explorer as well as Live Essentials, which provides mail, news, and messages. End-user techniques for diagnostic and trouble-shooting procedures will be introduced (formerly CIM 174A). NR

CI MN 100B
COMPUTER OPERATING SYSTEMS - WINDOWS--INTERMEDIATE
1.5 Units 1.5 hours lecture
Transfers: CSU
Utilize Live Messenger for instant messaging and blogging. Use Live Movie Maker, Live Photo Gallery, and Media Center media and graphics manipulation tools. Set up and use a small network and mobility center to share information. Students will learn to maintain and optimize their computer’s performance, add and remove programs, and back up files. Installing and managing printers and hardware will be introduced. End-user techniques for diagnostic and trouble-shooting procedures will be discussed (formerly CIM 174B). NR

CI MN 130
COMPUTER OPERATING SYSTEMS - UNIX AND LINUX
3 Units 3 hours lecture
Transfers: CSU
Provides an overview of operating system concepts. Presents implementation through the use of UNIX/Linux commands. Operating system concepts such as file systems, variables, and permissions are discussed. Students 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 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 (formerly CIM 230).  

**CI MN 200**  
**INTRODUCTION TO NETWORKING**  
3 Units 3 hours lecture  
Prepares students for CompTIA's Network+ exams. Focuses on configuring, managing, and troubleshooting the elements of a basic network infrastructure (formerly CIM 251).  

**CI MN 210**  
**NETWORKING ESSENTIALS AND TECHNOLOGIES**  
3.5 Units 3 hours lecture 1 hour lab  
Prepares students for CompTIA's Network+ exams. Focuses on configuring, managing, and troubleshooting the elements of a basic network infrastructure (formerly CIM 251).  

**CI MN 220A**  
**MCSE CERTIFICATION EXAM PREP I**  
3 Units 2.5 hours lecture 1.5 hours lab  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
</table>
| CI MN 220A | MCSE CERTIFICATION EXAM PREP I | 3 | 2.5 lecture 1.5 lab | MCSE Exam 70-410. Covers Configuring Windows Server 2012 through simulations, practice tests, and feedback (formerly CIM 292A).  
NR |
| CI MN 220C | MCSE CERTIFICATION EXAM PREP III | 3 | 2.5 lecture 1.5 lab | MCSE Exam 70-412. Covers Configuring Advanced Windows Server 2012 Services through simulations, practice tests, and feedback (formerly CIM 292C).  
NR |
| CI MN 220D | MCSE CERTIFICATION EXAM PREP IV | 3 | 2.5 lecture 1.5 lab | MCSE Exam 70-413. Covers Designing and Implementing a Server Infrastructure through simulations, practice tests, and feedback (formerly CIM 292D).  
NR |
| CI MN 220E | MCSE CERTIFICATION EXAM PREP V | 3 | 2.5 lecture 1.5 lab | MCSE Exam 70-414. Covers Designing and Implementing a Server Infrastructure through simulations, practice tests, and feedback (formerly CIM 292E).  
NR |
| CI MN 220F | MCITP CERTIFICATION EXAM PREP VI | 3 | 2.5 lecture 1.5 lab | MCITP Exam 70-680. Covers Installing, Configuring, and Administering Windows 7 through simulations, practice tests, and feedback (formerly CIM 292F).  
NR |
| CI MN 240 | FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION | 3 | Hours | Explore the fundamental responsibilities of a UNIX/Linux system administrator. Provides a network administrator 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; administrator 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 administration tasks (formerly CIM 256).  
NR |
| CI MN 220B | MCSE CERTIFICATION EXAM PREP II | 3 | 2.5 lecture 1.5 lab | MCSE Exam 70-411. Covers Administering Windows Server 2012 through simulations, practice tests, and feedback (formerly CIM 292B).  
NR |
| CI MN 250 | NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX | 3 | Hours | Prepares students for CompTIA's Network+ exams. Focuses on configuring, managing, and troubleshooting the elements of a basic network infrastructure (formerly CIM 251).  

**CI MN 220C**  
**MCSE CERTIFICATION EXAM PREP III**  
3 Units 2.5 hours lecture 1.5 hours lab  

**CI MN 220D**  
**MCSE CERTIFICATION EXAM PREP IV**  
3 Units 2.5 hours lecture 1.5 hours lab  
MCSE Exam 70-413. Covers Designing and Implementing a Server Infrastructure through simulations, practice tests, and feedback (formerly CIM 292D).  

**CI MN 220E**  
**MCSE CERTIFICATION EXAM PREP V**  
3 Units 2.5 hours lecture 1.5 hours lab  
MCSE Exam 70-414. Covers Designing and Implementing a Server Infrastructure through simulations, practice tests, and feedback (formerly CIM 292E).  

**CI MN 220F**  
**MCITP CERTIFICATION EXAM PREP VI**  
3 Units 2.5 hours lecture 1.5 hours lab  
MCITP Exam 70-680. Covers Installing, Configuring, and Administering Windows 7 through simulations, practice tests, and feedback (formerly CIM 292F).  

**CI MN 240**  
**FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION**  
3 Units 3 hours lecture  
Prepares students for CompTIA's Network+ exams. Focuses on configuring, managing, and troubleshooting the elements of a basic network infrastructure (formerly CIM 251).  

**CI MP 5**  
**BUSINESS PROGRAMMING I - VISUAL BASIC**  
3.5 Units 3 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
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 (formerly CIM 2A). NR

CIMP 7A
BUSINESS PROGRAMMING - JAVABEGINNING
3 Units 3 hours lecture
Transfers: CSU UC
Java language and object-oriented programming will be utilized to develop business applications. Discussion topics 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 (formerly CIMP 7A). NR

CIMP 7B
BUSINESS PROGRAMMING - JAVA-ADVANCED
3 Units 3 hours lecture
Transfers: CSU UC
Recommended Preparation: CIMP 7A
An in-depth study of advanced Java programming concepts. Provides skill in advanced programming, sockets, exception handling, file handling, networking, dynamic data structures, HTML, threads, multithreading, Swing, container classes, GUI text input/output (I/O), Abstract Windowing Toolkit (AWT), events, listeners, graphics, Applications Programmer Interface (API), utility package, Object-Oriented Programming (OOP), inheritance, information handling and recursion (formerly CIMP 7B). NR

CIMP 115
BUSINESS PROGRAMMING-C#
3.5 Units 3 hours lecture 1.5 hours lab
Transfers: CSU
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 (formerly CIMP 287). NR

CIMP 210
MS SQL SERVER BUSINESSTHELLENCE DEV/T-SQL
3 Units 3 hours lecture
Transact-SQL allows developers to create ad hoc queries as well as to write and invoke complex stored procedures, integration packages, and reports. Students will learn how to create and write queries, functions and triggers and also retrieve and maintain data using Transact-SQL (formerly CIMP 219). NR

CIMP 220
ANDROID MOBILE APPS - BEGINNING
3.5 Units 3 hours lecture 1.5 hours lab
Create mobile Android applications. Installing and using Android Studio and the Android sdk, using activities and intents, displaying notifications, creating rich user interfaces, mastering views and menus, managing data, working with sms and messaging api’s, using location-based services, packaging and publishing application to the Android market. NR

CIMP 222
ANDROID MOBILE APPS - ADVANCED
3.5 Units 3 hours lecture 1.5 hours lab
Advanced Android topics focusing on the latest API and SDKs including multi-fragment user interfaces, action bar and tabbed navigation, animation and graphics, location services and sensors, data storage both local and JSON web services, media and camera integration. Students will develop using latest version of Java JRE with Android Studio. Emphasis on business applications including a final project to be deployed for publication. NR

CIMP 225
WIN DOWS STORE APPS BEGINNING
3.5 Units 3 hours lecture 1.5 hours lab
Develop Windows Store applications using Visual Studio and C#/XAML/Java/HTML. Create UI, respond to user interaction, work with data and files, web and network services, manage user information, launch and resume apps, integrate devices, debugging, globalization, accessibility, packaging and deploying apps. NR

CIMP 230
INTRODUCTION TO COMPUTER AND VIDEO GAME DESIGN
3 Units 3 hours lecture
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), OpenGL and game engines. Includes overview of scripting and programming languages used in game development. Introduction to mobile app game development. The evolution and future of game development is included. Theoretical concepts of game design, AI, storytelling, and level design will be demonstrated. Class will use a strategy video game to demonstrate concepts and theory. Includes discussion of effective individual and team play strategies. Virtual reality, mobile wireless gaming, immersion, and emotioneering will also be introduced (formerly CIMP 286). NR

CIMP 235
IPHONE & IPAD PROGRAMMING BEGINNING
3.5 Units 3 hours lecture 1.5 hours lab
Application building for the iPhone or the iPad using the iOS Software Development Kit (SDK). Students will create, test, debug and manage their iOS apps. There is considerable focus on Objective-C, the language used to create these applications. In addition to the tools and the language, students explore the design patterns as recommended by Apple developers. NR

CIMP 241
CLOUD COMPUTING FOR DEVELOPERS
3.5 Units 3 hours lecture 1.5 hours lab
Hands on fundamentals of cloud computing as it relates to IT professionals both in application development and systems management. Infrastructure as a
Service (IaaS) and Platform as a Service (PaaS) will be investigated. Building and scaling virtual machines, deploying and managing saleable web sites, designing mobile service back ends, data services including SQL Database, plus storage services such as Table and Blob storage. This is tied together with App Services using message queues between web and worker roles. Development both locally in Visual Studio and directly in the cloud portal. NR

CIMS 200
INFORMATION SECURITY FUNDAMENTALS
3 Units 3 hours lecture
Recommended Preparation: CIMN 230, 100 OR 100A/B, & 200
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 (formerly CIM 279). NR

CIMS 230
SECURITY+
3 Units 3 hours lecture
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 (formerly CIM 274). NR

CIMS 240
INTRODUCTORY COMPUTER FORENSICS
3 Units 3 hours lecture
Students will learn the skills necessary to launch and complete a successful computer investigation. Guides students through conducting a high-tech investigation, from acquiring digital evidence to reporting its findings. Students will learn how to set up a forensics lab, how to acquire the proper and necessary tools, and how to conduct the investigation and subsequent digital analysis. Features free downloads of the latest forensic software, so students can become familiar with the tools of the trade (formerly CIM 293). NR

CIMS 250
CYBERLAW
3 Units 3 hours lecture
Recommended Preparation: CIMN 293). NR
Helps students understand the legal and policy issues associated with the Internet. Tackling a full range of topics including copyright law, trademarks in e-commerce, online tax-related issues, cybercrimes, regulating online speech, and privacy protection. Topics studied through recent relevant cases, discussion questions and exercises (formerly CIM 294). NR

CIMS 295
WEB SITE DEVELOPMENT:HTML
3 Units 3 hours lecture
Transfers: CSU
Use recommended web site design practices, HTML code, Java applets, JavaScript and multimedia (sound and video) to construct basic web pages/web sites. Publish web pages to a server using FTP software. Use Cascading Style Sheets (CSS) to format color, text and page layout. Create and use tables and forms styling them with CSS, and learn to handle form data. Discuss functions and job roles for a successful web project development, and e-commerce and web promotion. Examine the use and function of visual elements such as graphics and hyperlinks, multimedia, interactivity, Java applets, and JavaScript including variables, operators, if statements, event handling and form validation. Students will construct web sites that use multimedia features such as sounds, video, and Java applets (formerly CIM 271B). NR

CIMW 100
WEB SITE DEVELOPMENT - HTML--ADVANCED
1.5 Units 1.5 hours lecture
Recommended Preparation: CIMW 100A
Continuation of CIMW 100A. Introduces advanced concepts for creating web pages that enable the improved delivery of information over the Web. Topics include tables, forms and ability to style them with CSS and work with server-side processing. Identify skills, functions and job roles required for a successful web project development is covered. Use and function of multimedia and interactivity, Java applets, Java scripts introduced. Overview of E-Commerce and web promotion. Introduction to JavaScript including the Document Object Model, use of variables, operators, if statements, event handling and form validation. Students will construct web sites that use multimedia features such as sounds, video, and JavaScript (formerly CIM 271B). NR

CIMW 105
WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL
3 Units 3 hours lecture
Transfers: CSU
Introduction to databases, web server-side databases and the Structured Query Language (SQL). Course uses MySQL to create, manipulate, and query databases. Covers the fundamentals of a relational database, basic selection queries, sub-queries, multiple table queries, joins, aggregate calculations, updating data, MySQL database administration, data definition and manipulation, views, sorting, triggers, constraints, indexes and basic introduction to PL/SQL (formerly CIM 205A). NR
CI MW 110A
INTRO TO CREATING WEB PAGES I USING DREAMWEAVER & WP
1.5 Units 1.5 hours lecture
Transfers: CSU
An introduction to creating, publishing and testing documents on a web server. Students maintain both personal and business web sites consisting of web pages created in Dreamweaver. Dreamweaver will be used to demonstrate web site development framework, design elements, and design principles. Course will cover internet concepts, web site management, linking, FTP, HyperText Markup Language (HTML) specifications, typography, inserting graphics with text, intro to CSS, working with internal and external hyperlinks. Course provides an introduction to Wordpress blogging and posting to discussion boards. Requires no previous Web design experience (formerly CIM 278A). NR

CI MW 110B
INTRO TO CREATING WEB PAGES II USING DREAMWEAVER & WP
1.5 Units 1.5 hours lecture
Transfers: CSU
Recommended Preparation: CI MW 110A
An advanced course in creating web pages. Students will maintain an intermediate web site consisting of web pages created in Dreamweaver. Includes rollovers, navigation bars, Cascading Style Sheets (CSS), forms, JavaScript form validation, tables, inserting video, animation, sound, page layout, absolute positioning (AP) and other advanced DHTML editing (formerly CIM 278B). NR

CI MW 115
INTRO WEB DESIGN & DEVELOPMENT WEB PAGE CREATION DREAMWEAVER
3 Units 3 hours lecture
Transfers: CSU
Introduction to web design and development in creating web pages using modern tools such as Adobe Dreamweaver and Wordpress. Teaches basic introduction to HTML and CSS following World Wide Web Consortium (W3C) guidelines and validation. Provides an overview of FTP, internet, social implications, accessibility, and web security. Students will maintain a website on a World Wide Web (WWW) server consisting of HTML, advanced HTML elements such as links, tables, forms, intro JavaScript validation, object and frames, and basic CSS selectors. Using CSS students will configure layouts, fonts, colors and other properties. Includes website integration of Microsoft Word, graphics, video, and sound. Introduces basic web animation and video editing. NR

CI MW 140
CSS (CASCADE STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN)
3 Units 3 hours lecture
Transfers: CSU
Explores how to use Cascading Style Sheets (CSS) to take your HTML web pages to the next level. CSS provides the means to create desktop publishing and mechanisms for supporting multiple devices. Covers all basic CSS fundamentals including: page layout, positioning, text alignment, formatting, margins, borders, text-flow, background images, typography and CSS3 features (border radius, gradients, and text shadows). Discuss how to debug web pages using Dreamweaver and web browsers. Create mobile web pages using bulletproof page layouts, and apply CSS presentation to content with known structure and RWD (Responsive Web Design) concepts of Fluid Grid Layout, HTML5, and CSS3 media query (formerly CIM 272 and CIMW 240). NR

CI MW 145
WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE
3 Units 3 hours lecture
Transfers: CSU
Covers server-side web development using the PHP scripting language. Create dynamic server-side web pages. Topics include: PHP syntax, variables, HTML forms, super globals, arithmetic operations, numbers, strings, control structures, arrays, creating functions, XML, XML Styling Language (XSL), FTP, IDE setup and folders. Includes introduction to MySQL, PHP with MySQL, advanced PHP MySQL integration and PHP with client-side JavaScript/AJAX. Students will create and maintain PHP programs on a World Wide Web (WWW) server. Also includes introduction to Content Management Systems (CMS), Wordpress, Dreamweaver/WordPress integration and E-Commerce (formerly CIM 225 and CIMW 245). NR

CI MW 160
WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX
3 Units 3 hours lecture
Transfers: CSU

CI MW 207
SOCIAL MEDIA & WEB FUNDAMENTALS
1.5 Units 1.5 hours lecture 0.5 hour lab
Overview of the historical and current aspects of the Internet, online communications, and social networking basics. Students are introduced to netiquette, 508 standards, electronic mail, discussion groups, video and non-video chat rooms, search techniques and tools, the World Wide Web, Internet browsers and add-ons for web browsers. Web page development, design, content and security issues are introduced (formerly CIM 227). NR

CI MW 220
WEB AND MOBILE 3D & 2D ANIMATION - ADOBE FLASH
3 Units 3 hours lecture 1 hour lab
Interactive animations of websites using Adobe FLASH. Course covers beginning and intermediate animation concepts to build web animation. Explores frame-by-frame animation, basic tweening, HTML publishing, symbol creation and sound compression. Integration of sound to
achieve communication objectives on
the web, and importing and
modifying graphics and complex
animations will be introduced
(formerly CIM 264).  NR

CI MW 250
MICROSOFT ASP.NET--
BEGINNING
3.5 Units 3 hours lecture 1.5
hours lab
Create Microsoft ASP.NET & MVC 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 (formerly
CIM 260A and CI MW 250A).  NR

CI MW 262
AJAX--ADVANCED JAVASCRIPT
WITH XML
3 Units 3 hours lecture
Provides students with the knowledge
and skills necessary to use J avaScript,
XML, and server-side languages to
develop dynamic Web-based
applications. Topics of study include
the use of asynchronous J avaScript,
the Document Object Model, XML in
Web page requests, server-side
languages (e.g. PHP, J ava) to query
and return information from a
relational database, and how to
design and develop new AJ AX
applications (formerly CIM 231).  NR

CI MW 280
WEB DESIGN - CAPSTONE
PORTFOLIO PROJECT
1.5 Units 1.5 hours lecture
Provides students with the knowledge
and skills necessary to use J avaScript,
XML, and server-side languages to
develop dynamic Web-based
applications. Topics of study include
the use of asynchronous J avaScript,
the Document Object Model, XML in
Web page requests, server-side
languages (e.g. PHP, J ava) to query
and return information from a
relational database, and how to
design and develop new AJ AX
applications (formerly CIM 231).  NR

Computer Maintenance
Technology

CMT 215
ELECTRONICS FOR COMPUTER
TECHNOLOGIES
3 Units 3 hours lecture
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.  NR

CMT 220
COMPUTER MAINTENANCE AND
REPAIR I
3 Units 2.5 hours lecture 1.5
hours lab
First course of two in the sequence
covering the basics of computer
maintenance and repair. Includes PC
hardware overview, motherboards,
microprocessors, power supplies,
memory, expansion buses, hard disk
drives, and optical drives. Lab
exercises with PCs give hands-on
experience of the topics being studied.  NR

CMT 225
COMPUTER MAINTENANCE AND
REPAIR II
3 Units 2.5 hours lecture 1.5
hours lab
Second course in the sequence
covering the basics of computer
maintenance and repair. Includes
printers, monitors 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.  NR

Computer Science

CS 1A
INTRODUCTION TO COMPUTER
SCIENCE I
5 Units 4 hours lecture 3 hours
lab
Transfers: CSU, UC
The first course in the Introduction to
Computer Science series. 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 systems software. Emphasizes
algorithm development using modern
design methodologies and
programming concepts up to and
including looping algorithms,
functions, and arrays. Programs
implemented in a contemporary high-
level-language currently C++.  NR
### CS 1B
**INTRODUCTION TO COMPUTER SCIENCE II**

5 Units 4 hours lecture 3 hours lab

**Transfers:** CSU, UC  
**Recommended Preparation:** CS 1A

The second course in the Introduction to Computer Science series. Covers programming concepts including 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. Includes functional and object-oriented programming.  
NR

### CS 1C
**INTRODUCTION TO COMPUTER SCIENCE III**

4 Units 3 hours lecture 3 hours lab

**Transfers:** CSU, UC  
**Recommended Preparation:** CS 1B

The third and final course in the Introduction to Computer Science series. 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++.  
NR

### CS 1D
**DATA STRUCTURES**

5 Units 4 hours lecture 3 hours lab

**Transfers:** CSU, UC  
**Recommended Preparation:** CS 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.  
NR

### CS 3A
**COMPUTER ORGANIZATION AND MACHINE LANGUAGE**

4 Units 3 hours lecture 3 hours lab

**Transfers:** CSU, UC  
**Recommended Preparation:** CS 1D

Recommended Preparation: MATH 253 and CS 1A
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.  
NR

### CS 3B
**COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE**

4 Units 3 hours lecture 3 hours lab

**Transfers:** CSU, UC  
**Recommended Preparation:** CS 1A and CS 3A

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.  
NR

### CS 4A
**INTRODUCTION TO JAVA FOR COMPUTER SCIENCE**

4 Units 3 hours lecture 3 hours lab

**Transfers:** CSU, UC  
**Recommended Preparation:** CS 1B

An introduction to developing Java applications and applets. Topics include classes, inheritance, exceptions, arrays, vectors, recursion, streams, the abstract windowing toolkit, and swing components.  
NR

### CS 4B
**ADVANCED TOPICS IN JAVA FOR COMPUTER SCIENCE**

4 Units 3 hours lecture 3 hours lab

**Transfers:** CSU, UC  
**Recommended Preparation:** CS 4A

Advanced topics in Java including core class libraries, the swing components, the collections framework, multi-threading, servlets, JSP, RMI, J DBC, and software engineering concerns.  
NR

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### Cooperative Work Experience

**CWE 180**

**COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO**

2 Units 9.04 hours learning center

**Transfers:** CSU

Provides hands-on experience for students in radio, television, and cinema production. Includes direct application of theory in a practical environment in pre-production, production, and post-production phases of programming. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  
R-I-3

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**CWE 180**

**COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO**

3 Units 13.6 hours learning center

**Transfers:** CSU

Provides hands-on experience for students in radio, television, and cinema production. Includes direct application of theory in a practical environment in pre-production, production, and post-production phases of programming. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  
R-I-3
CWE 180
CO-OP-ED ENTERTAINMENT AND THEATRE TECHNOLOGY

2 Units 9.08 hours learning center

Transfers: CSU

Provides hands-on experience in the Entertainment industry. Students explore specific areas of interest in the field. Students identify a specific area of focus and develop learning objectives and expected outcomes with the assistance of faculty and industry experts. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  R-I-1

CWE 180
CO-OP-ED I NTERIOR DESIGN

1 Unit 4.52 hours learning center

Transfers: CSU

Prerequisite: HSC 151, KNEA 151

Limitation: Physician clearance, immunizations, liability insurance, and background check.

Recommended Preparation: BIO 11

Students exploring careers in allied health professions (i.e. physical/occupational/speech therapy) will be assigned to an affiliated health care facility for a non-salaried, supervised experience. Health care facility may include acute care hospital, outpatient clinic, home health or skilled nursing facility. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  R-I-3

CWE 180
CO-OP-ED TRAVEL MANAGEMENT

1 Unit 4.52 hours learning center

Transfers: CSU

Prerequisite: TOUR 260

Provides work experience in the travel industry, including ticketing, reservations, major tourist destinations, resorts, fares, routes, tour planning and promotions. A maximum of one unit may be applied toward travel certificate and degree requirements. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  NR
work 75 paid hours or 60 non-paid hours per unit earned. NR

CWE 180  
CO-OP-ED FASHION  
1 Unit 4.52 hours learning center  
Transfers: CSU  
Corequisite: FASH 145/BUS 145  
Provides hands-on experience in the fashion industry. Students explore fashion careers and different types of fashion employers specific to their area of interest. Students refine and practice job skills, further develop fashion portfolios and resumes while building professional experience and contacts. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. R-I-1

CWE 180  
CO-OP-ED ECOLOGICAL RESTORATION  
1 Unit 4.52 hours learning center  
Transfers: CSU  
Provides supervised work experience in ecological restoration issues and prepare presentations to public and private groups. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. NR

CWE 180  
CO-OP-ED-BUSINESS  
1 Unit 4.52 hours learning center  
Transfers: CSU  
Hands-on experience in business management. Provides entry level opportunities for students to extend and apply their business management learning in a workplace environment. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. R-I-3

CWE 180  
CO-OP-ED-BUSINESS  
2 Units 9.04 hours learning center  
Transfers: CSU  
Hands-on experience in business management. Provides basic to intermediate level opportunities for students to extend and apply their business management learning in a workplace environment. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. R-I-3

CWE 180  
CO-OP-ED BUSINESS  
3 Units 13.56 hours learning center  
Transfers: CSU  
Hands-on experience in business management. Provides intermediate level opportunities for students to extend and apply their business management learning in a workplace environment. Provides opportunities for students to extend and apply their learning in a workplace management environment. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. R-I-3

CWE 180  
CO-OP-ED-AUTO  
1 Unit 4.52 hours learning center  
Transfers: CSU  
Provides supervised work experience in a variety of automotive technology roles specializing in chassis, engine performance, engine service, or automotive technician generalist roles.
areas. A maximum of four units may be applied toward major requirements for each certificate. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  

CWE 180  
CO-OP-ED-GRAPHICS  
1 Unit 4.52 hours learning center  
Transfers: CSU  
Provides students hands-on internship experience working with art directors, graphic designers, production artists, illustrators, computer graphic designers, package designers, and related professionals. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. A maximum of two units may be applied towards major requirements for certificate.  

CWE 180  
CO-OP-ED JOURNALISM  
1 Unit 4.52 hours learning center  
Transfers: CSU  
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 journalism and the media industry. 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.  

CWE 180  
CO-OP-ED JOURNALISM  
3 Units 10.86 hours learning center  
Transfers: CSU  
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 journalism and the media industry. 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.  

CWE 180  
CO-OP-ED JOURNALISM  
2 Units 9.04 hours learning center  
Transfers: CSU  
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 journalism and the media industry. 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.  

CWE 180  
CWE, NEW GRAD RN  
TRANSITION INTERNSHIP  
4 Units 18.08 hours learning center  
Transfers: CSU  
Limitation: Current California RN license, CPR certification, physical, background check, malpractice insurance  
Focuses upon exploring work-related issues in a health care setting. Provides opportunities for newly licensed nurses to apply previously learned theory and clinical skills in which the student has demonstrated competency. Designed to provide recent graduates work experience to make them more marketable to new potential employers. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  

CWE 180  
COOPERATIVE WORK EXPERIENCE - MENTAL HEALTH  
2 Units 9.04 hours learning center  
Transfers: CSU  
Prerequisite: HS 100, 120, 131, 140, 174, 176, 177, 220, 285  
Cooperative Work Experience (CWE) is a field placement that provides vocational experiences through direct placement and supervision in a community-based mental health and/or co-occurring disorders treatment environment. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives, of which the student will work toward developing and mastering during the CWE. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  

CWE 180  
COOPERATIVE WORK EXPERIENCE - ARCHITECTURAL INTERNSHIP  
1 Unit 4.52 hours learning center  
Prerequisite: ARCH 220  
Architectural students will work for licensed professionals, especially licensed architects, to increase their knowledge of professional practice and work toward satisfying the requirements of licensure. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned.  

CWE 180
CO-OP-ED - ACCOUNTING
PROGRAM INTERNSHIP
3 Units 13.56 hours learning center
Transfers: CSU
Recommended Preparation: ACCT 1A ACCT 1B
Hands on accounting career experience through cooperative work experience with community businesses and organizations. Students are placed in temporary work assignments that represent work performed by accounting professionals. Student, instructor, and employer will develop a minimum of three learning objectives. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. NR

CWE 180
CO-OP-ED FOODS AND NUTRITION
1 Unit 4.52 hours learning center
Transfers: CSU
Students learn professional principles in industry and healthcare environments which allows for individual application in a variety of settings. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. R-I-1

CWE 180
CO-OP-ED FOODS AND NUTRITION
2 Units 9.04 hours learning center
Transfers: CSU
Students learn professional principles in industry and healthcare environments which allows for individual application in a variety of settings. Students may enroll in a maximum of 8 units of cooperative work experience education per semester, for a lifetime maximum of 16 units. Students must work 75 paid hours or 60 non-paid hours per unit earned. R-I-1

Cosmetology

COS 410A
COSMETOLOGY FRESHMAN-LEVEL 1
12 Units 6 hours lecture 18.1 hours lab
Prerequisite: COS 410A or completion of 400 hours
Second in a series of four, 400 hour courses. Designed to continue the ongoing training required for the California State Board of Barbering and Cosmetology licensing examination and success in a career in cosmetology. Includes both classroom instruction and laboratory practice required by the California State Board. At completion of 1,600 hours and passing the California State Board Examination students will be prepared as an entry level cosmetologist. A variable unit course offered on an open-entry/open-exit basis. Twelve units are granted upon successful completion of the 400 classroom/laboratory hours. The units earned may not be applied toward the 60 units required for graduation. R-E-3
COS 410C
COSMETOLOGY ADVANCED-LEVEL 3
12 Units 6 hours lecture 18.1 hours lab
Prerequisite: COS 410B or completion of 800 hours
The Advanced Course is designed to prepare the student for the California State Board of Barbering and Cosmetology licensing examination and success in career in cosmetology. The program includes both classroom instruction and laboratory practice of the knowledge and skills required by the State Board and for entry level skills as a cosmetologist. Subjects applicable to cosmetology are also covered. This is the third of four consecutive courses. Each course is 400 hours and each must be successfully completed to advance to the next course. Twelve units are granted upon successful completion of the 400 classroom/laboratory hours. The units earned may not be applied toward the 60 units required for graduation. R-E-3

COS 410D
COSMETOLOGY SENIOR-LEVEL 4
12 Units 6 hours lecture 18.1 hours lab
Prerequisite: COS 410C or completion of 1200 hours
Final in a series of four, 400 hour courses. Designed to prepare the student for the California State Board of Barbering and Cosmetology licensing examination and success in a career in cosmetology. Includes both classroom instruction and laboratory practice required by the State Board. At completion of 1,600 hours and passing the California State Board Examination students will be prepared as an entry level cosmetologist. A variable unit course offered on an open-entry/open-exit basis. Twelve units are granted upon successful completion of the 400 classroom/laboratory hours. The units earned may not be applied toward the 60 units required for graduation. R-E-3

COS 440
COSMETI CI AN
18 Units 9 hours lecture 27.5 hours lab
Limitation: California State Board of Barbering and Cosmetology Business and Professions Code Section 7321 provides that a student: (a) is not less than 17 years of age. (b) Has completed the 10th grade in the public schools of this state or its equivalent
A 600 hour course designed to prepare the student for the State Licensing Examination and success as a cosmetician esthetician. 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. A variable unit course offered on an open-entry/open-exit basis with a required minimum number of combined lecture/lab hours per week. The units earned for this course may not be applied toward the 60 units for graduation. R-E-3

Counseling
COUN 1
ACADEMIC PLANNING
1.5 Units 1.5 hours lecture
Transfers: CSU, UC
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. (formerly APSY 1) NR

COUN 100
COLLEGE SUCCESS
1.5 Units 1.5 hours lecture
Transfers: CSU
Designed to introduce students to higher education and to create greater success in life. Students will learn proven strategies for creating academic and personal success. Topics include understanding and utilizing college resources, communication and interdependence with faculty, support staff and fellow students. Intended to prepare students for subsequent Counseling courses related to academic, career, and personal success. NR

COUN 140
EDUCATIONAL AND VOCATIONAL PLANNING
3 Units 3 hours lecture
Transfers: CSU
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 (formerly APSY 140). NR

COUN 150
HELPING RELATIONSHIPS
3 Units 3 hours lecture
Transfers: CSU
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. (formerly APSY 150) NR

COUN 151
HUMAN RELATIONSHIPS
3 Units 3 hours lecture
Transfers: CSU
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. (formerly APSY 151)  NR

COUN 160
CAREER AND VOCATIONAL EXPLORATION
3 Units 3 hours lecture
Transfers: CSU
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 (formerly APSY 160).  NR

COUN 161
LEARNING AND STUDY TECHNIQUES
1.5 Units 1.5 hours lecture
Transfers: CSU
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. (formerly APSY 161A)  NR

Dance

DANC 9
CHOREOGRAPHY
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Emphasis will be placed on movement design, choreographic structure and production fundamentals of dance. Students will participate in class activities, improvisation, movement studies, discussions and gain a working knowledge of staging, lighting, and preparing choreography for performance. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14.  NR

DANC 10
DANCE PRODUCTION
1 Unit 3 hours lab
Transfers: CSU, UC
Present elements of choreography, development of solo and group composition, staging of dances, and performance in a theatre venue. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14.  NR

DANC 10
DANCE PRODUCTION
2 Units 6 hours lab
Transfers: CSU, UC
Elements of choreography, development of solo and group choreographic compositions, staging of dances, and performance in theatre venue. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14.  NR

DANC 11
DANCE REHEARSAL AND PERFORMANCE
1 Unit 3 hours lab
2 Units 6 hours lab
Transfers: CSU, UC
Entry level course emphasizing rehearsal and performance techniques in a theatre venue. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14.  NR

DANC 12
INTERMEDIATE DANCE PRODUCTION
1 Unit 3 hours lab
2 Units 6 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 10
Emphasizes the development of group and solo composition, staging, lighting and performance in a mastery level experience for a theatre venue. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14. Formerly DANC 112.  NR

DANC 14
INTERMEDIATE DANCE REHEARSAL AND PERFORMANCE
1 Unit 3 hours lab
2 Units 6 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 11
An intermediate level course that emphasizes building and developing performance skills in the presentation and staging of dances for professional auditions and theatre venues. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14. Formerly DANC 114.  NR

DANC 15
REPERTORY I
1 Unit 3 hours lab
Transfers: CSU, UC
Limitation: Audition mandatory at beginning of the semester
Students will learn, rehearse and perform set repertory for college and community events. Auditions mandatory at start of semester (formerly DANC 115). Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18.  NR

DANC 15
REPERTORY I
2 Units 6 hours lab
Transfers: CSU, UC
Limitation: Audition mandatory at beginning of the semester
Students will learn, rehearse and perform set repertory for college and community events. Based on skills gained in class, students will assist with ensemble activities at performing sites. Auditions mandatory at start of semester. Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18.  NR
DANC 16
REPERTORY I
1 Unit 3 hours lab
Transfers: CSU, UC
Limitation: Audition by dance faculty
Advanced level performing ensemble representing Saddleback College dance department. Students will learn valuable skills through preparing, rehearsing and performing for local high schools and throughout the community while working in a professional environment as a performer (formerly DANC 116). Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18. NR

DANC 17
SITE SPECIFIC PERFORMANCE
1 Unit 3 hours lab
Transfers: CSU, UC
Overview of techniques and approaches for performance and design outside the context of a proscenium theatre. Covers movement, sound, text, image, design, improvisation and composition. Opportunities for rehearsal, choreography, improvisation and performance in multiple styles and settings. Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18. NR

DANC 18
DANCE ENSEMBLE PERFORMANCE
2 Units 6 hours lab
Transfers: CSU, UC
Limitation: Audition adjudicated by dance faculty at the beginning of the semester.
Students will audition, rehearse and perform choreography in an ensemble company in venues throughout the community. Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18. NR

DANC 28
YOGA FOR DANCERS
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Designed for the dancer to build and maintain balance, flexibility and strength through postures, exercises and breathing techniques. Sequences will provide a methodical way for the dancer to condition the body and calm the mind in preparation for audition and performance (formerly DANC 128). Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28. NR

DANC 38
INTERMEDIATE MAT PILATES
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 65/KNES 65
Intermediate progression of mat exercises emphasizing the principles of Joseph Pilates. Improvement of back strength, flexibility, and postural alignment by integration of physical and mental aspects of movement. Proper breathing techniques are emphasized. Also listed as KNES 38. Credit given in either area, not both (formerly DANC 138). Students are limited to a combined total of four enrollments in KNES 9, DANC/KNES 38, DANC 63, and DANC/KNES 65. NR

DANC 38
INTERMEDIATE MAT PILATES
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 65/KNES 65
Intermediate progression of mat exercises emphasizing the principles of Joseph Pilates. Improvement of back strength, flexibility, and postural alignment by integration of physical and mental aspects of movement. Proper breathing techniques are emphasized. Also listed as KNES 38. Credit given in either area, not both (formerly DANC 138). Students are limited to a combined total of four enrollments in KNES 9, DANC/KNES 38, DANC 63, and DANC/KNES 65. NR

DANC 38
INTERMEDIATE MAT PILATES
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 65/KNES 65
Intermediate progression of mat exercises emphasizing the principles of Joseph Pilates. Improvement of back strength, flexibility, and postural alignment by integration of physical and mental aspects of movement. Proper breathing techniques are emphasized. Also listed as KNES 38. Credit given in either area, not both (formerly DANC 138). Students are limited to a combined total of four enrollments in KNES 9, DANC/KNES 38, DANC 63, and DANC/KNES 65. NR

DANC 51
INTRODUCTION TO BALLET
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 52
Designed to teach the fundamentals of ballet. Technical work at the ballet barre, center-floor exercises, adagio, and allegro work. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR

DANC 52
BALLET DANCING LEVEL I
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Designed to teach the fundamentals of ballet. Technical work at the ballet barre, center-floor exercises, adagio, and allegro work. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR

DANC 52
BALLET DANCING LEVEL I
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 52
Designed to teach the fundamentals of ballet. Technical work at the ballet barre, center-floor exercises, adagio, and allegro work. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR

DANC 53
INTERMEDIATE BALLET
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 52
Emphasis on improving ballet technique and continuing to build vocabulary at the ballet barre and in center. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR
DANC 54
INTRODUCTION TO MODERN DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 54
Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of modern dance techniques are presented and practiced in class, and presentation of historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of modern dance. Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72. NR

DANC 55
MODERN DANCE LEVEL I
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 54
Provides students with a progressive modern dance experience to perfect techniques presented and practiced in class. The presentation of historical and stylistic perspectives of this dance form will include. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of modern dance. Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72. NR

DANC 56
INTERMEDIATE MODERN DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 55
Provides an opportunity for students to increase their proficiency in modern dance technique with emphasis on improving individual skills. Continued development of the body through stylized movement. Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72. NR

DANC 57
INTRODUCTION TO JAZZ DANCING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Designed for students with no experience in dance, as well as those wishing to perfect basic dance skills. Fundamentals of jazz dancing 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 students with the knowledge and understanding of the physical demands of jazz dancing. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. NR

DANC 58
JAZZ DANCING LEVEL I
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Designed for students with no experience in dance, as well as those wishing to perfect basic dance skills. Fundamentals of jazz dancing 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 students with the knowledge and understanding of the physical demands of jazz dancing. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. NR

DANC 59
INTERMEDIATE JAZZ DANCING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 58
Intermediate jazz dancing techniques are presented and practiced with an emphasis on stylistic qualities. Participation provides students with the knowledge and understanding of the physical demands of jazz dancing. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. NR

DANC 60
INTRODUCTION TO TAP DANCING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC

DANC 61
TAP DANCING LEVEL I
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75. NR

DANC 62
INTERMEDIATE TAP DANCING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 61
Review and continuation of tap dancing skills with emphasis on improving individual technique and knowledge based concepts. Higher level steps and dance combinations will be presented. Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75. NR

DANC 63
EXERCISE FOR DANCERS
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Designed for the dance student to increase fitness, flexibility, endurance, and strength in all types of dance techniques. Includes weight training, nutrition, care and prevention of injuries, and exercise. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR

DANC 64
HISTORY OF DANCE
3 Units 3 hours lecture
Transfers: CSU, UC
Follows the historical development of theatrical forms of dance in the Western world. The course moves chronologically from the Renaissance to the twenty-first century, with particular attention to the progress of ballet, modern, musical theatre, tap, and dance media in the United States and Europe. Readings, class discussions, viewings and assignments are all integral parts of the course, and lectures will be supplemented with film excerpts, creative activities, and discussion of both assigned reading and materials viewed in class. NR

DANC 65
INTRODUCTION TO MAT PILATES
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 61
A more advanced approach in pointe technique emphasizing sequences at the barre. Center-floor work will challenge the student through adagio and allegro combinations for pointe. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR
DANC 68
INTRODUCTION TO SOCIAL DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Explores the various forms of social dance such as Foxtrot, Waltz, Swing/Jive, and Quick Step. Combinations will be presented to gain coordination, strength, and agility. Students are limited to a combined total of four enrollments in DANC 68 and 69. Formerly DANC 170. NR

DANC 69
INTERMEDIATE SOCIAL DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 68
Review and continuation of social dance with emphasis on improving individual skills. More advanced steps and dance sequences will be presented. Students are limited to a combined total of four enrollments in DANC 68 and 69. Formerly DANC 169. NR

DANC 70
INTERMEDIATE LATIN DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 66
Continued instruction in Latin Dance with emphasis on improving individual skills. More advanced steps and dance sequences will be presented. Students are limited to a combined total of four enrollments in DANC 66 and 70. Formerly DANC 170. NR

DANC 71
ADVANCED BALLET
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 53
Advanced ballet technique with emphasis on performance. Improving individual skills at the ballet barre and center-floor with adagio and allegro combinations (formerly DANC 171). Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. R-E-3

DANC 72
ADVANCED MODERN DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 56
Expand and develop advanced modern dancing techniques with emphasis on improving individual skills. Advanced modern dance concepts and combination will be presented (formerly DANC 172). Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72. R-E-3

DANC 73
ADVANCED JAZZ DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 59
A course for the more advanced student emphasizing various and combined styles, complex isolations and heightened tempos found in jazz dancing (formerly DANC 173). Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. R-E-1

DANC 74
MULTI CULTURAL DANCE HISTORY IN THE UNITED STATES
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to artistic, historical, and social context of dance forms, cultures, and traditions in the United States. Investigation of the origins, influences and the dissemination of various world dance forms as they have developed in the United States (formerly DANC 174). NR

DANC 75
ADVANCED TAP DANCE
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 62
Advanced skills in multiple tap techniques emphasizing rhythmic complexity, various tempos and improvisation (formerly DANC 175). Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75. NR

DANC 77
DANCE ACTIVITIES - LATIN AEROBICS
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Combines Latin music with stretching sequences and high energy movement combinations for health and fitness (formerly DANC 177). Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 8, 16, 50, and DANC 77. NR

DANC 78
HIP HOP
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Emphasizes various styles of hip hop dance such as breaking, locking, popping and freestyle. Preparation in auditioning for entertainment, commercial, and competitive events (formerly DANC 178). Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR

DANC 79
HIP HOP LEVEL I
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 78
Emphasizes various styles of hip hop dance. Further study in hip hop techniques such as street dance, breaking, B-boying and freestyle. Continued preparation in auditioning for entertainment, commercial, and competitive events. Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR
DANC 80
INTERMEDIATE HIP HOP
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 79
Emphasizes various styles of hip hop dance. A more advanced study in hip hop techniques. Preparation for performing and choreographing entertainment, commercial, and competitive venues. Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR

DANC 81
ADVANCED HIP HOP
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 80
Students will increase knowledge and technique in hip hop forms as a result of continued instruction. Students will learn, create and analyze hip hop movement preparing for auditions in performance venues. Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR

Drafting

DR 23
ENGINEERING GRAPHICS
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU, UC
Principles of communicating product design requirements via multiview projections, auxiliary views, and working drawings, including dimensions and notes using Computer-Aided Drafting (CAD). Planar geometric projections in orthographic relationships are used to define points, lines, planes, intersections and developments, and to describe spatial relationships. NR

DR 50
INTRODUCTION TO COMPUTER-AIDED DRAFTING
3 Units 2 hours lecture 4 hours lab
Transfers: CSU, UC
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. NR

DR 100
FUNDAMENTALS OF INDUSTRIAL AND MECHANICAL DESIGN
3 Units 2 hours lecture 4 hours lab
Transfers: CSU
Recommended Preparation: DR or ARCH 50
Develops basic design skills including proper use of CAD software, geometric construction, multiview projection, sections, pictorial drawings, auxiliary views, and dimensioning. A current version of a computer-aided design (AutoCAD) system will be used to present design concepts. Processes for design development include considering design constraints (customer requirements, schedule, cost factors, safety, aesthetics) with marketability and product placement targets. NR

DR 101
MECHANICAL DESIGN
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
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 drafting skills. A computer-aided drafting (CAD) system will be used. NR

DR 102
MECHANICAL DESIGN AND MARKETING PORTFOLIO
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Develops basic computer-aided design and drafting with emphasis on advanced 3D CAD knowledge and skills in the completion of technical drawings that support 3D modeling. Also listed as ARCH 152. Credit given in either area, not both. NR

DR 120
ENGINEERING TECHNOLOGY
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Comprehensive program to introduce and train students in the areas of Engineering Technology to provide skills and competencies to integrate design knowledge with practical job skills. NR

DR 152
ADVANCED COMPUTER-AIDED DESIGN
3 Units 2 hours lecture 4 hours lab
Transfers: CSU
Recommended Preparation: DR or ARCH 50 or 51
Advanced computer-aided design and drafting with emphasis on advanced 3D CAD knowledge and skills in the completion of technical drawings that support 3D modeling. Also listed as ARCH 152. Credit given in either area, not both. NR
Ecological Restoration

ECOL 201
ECOLOGICAL RESTORATION TECHNIQUES
4 Units 3 hours lecture 3 hours lab
Introduces students to specific theory and techniques for ecological restoration in a variety of habitats. Laboratory exercises will include site visits to restoration projects. NR

ECON 2
PRINCIPLES (MACRO)
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
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. NR

ECON 2H
HONORS PRINCIPLES OF MACROECONOMICS
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
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. This honors course will be enriched through limited class size, seminar format and more intensive application of mathematical modelling techniques, and application of those techniques to a greater number of specialized applications. Credit may be earned in either ECON 4 or 4H, but not both. Letter grade only. NR

ECON 11
INTERNATIONAL POLITICAL ECONOMY
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

EDUC 115
THE AMERICAN ECONOMY
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

Education

EDUC 41
SECONDARY SCHOOL TEACHING
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
History, philosophy and sociology of secondary education. Introduction to the California Teaching Performance Expectations and Assessments; needs of special populations, English learners, and struggling readers; content standards including Career Technical Education; and major curriculum reform documents. In addition, students will gain experience through 40 hours of required field work as follows: 30 hours at one site and 10 hours in various other sites/activities (formerly EDUC 115). NR

EDUC 90
INTRO TO ELEMENTARY EDUCATION
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 300, 340, CD 107
Introduces concepts and issues related to teaching diverse learners in today’s contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California’s content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school classrooms that represent California’s diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. NR

EDUC 118
EXCEPTIONAL CHILDREN
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 200 and 340
An introduction to special education for K-12 students. 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. DS5 NR

EDUC 131
EDUCATIONAL PSYCHOLOGY
3 Units 3 hours lecture
Transfers: CSU
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. NR

Electronic Technology

ET 101
SURVEY OF ELECTRONICS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 300, 340, CD 107
Introduces concepts and issues related to teaching diverse learners in today’s contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California’s content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school classrooms that represent California’s diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. NR

ET 114
DIGITAL ELECTRONIC CIRCUITS
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ET 114 and 135
Fundamentals of 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. NR

ET 118
ELECTRONIC COMMUNICATION SYSTEMS
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ET 114 and 135
Fundamentals of modern electronic communication systems, including radio, data, digital, and optoelectronic systems. Study of noise analysis, modulation methods, networks, transmission lines, antennas, and other important system components and considerations. Includes analytical techniques and equations as well as practical applications and troubleshooting. NR

ET 133
DC AND AC FUNDAMENTALS
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
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. NR

ET 135
SEMICONDUCTOR DEVICES AND CIRCUITS
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
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.

NR

ET 200
DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS
4 Units 3 hours lecture 3 hours lab

Recommended Preparation: ET 114
Fundamentals of digital signal processing, microcontrollers, analog-to-digital (A/D) and digital-to-analog (D/A) interface circuits, and other advanced digital circuits. Includes related hardware, software, testing, and troubleshooting. Lab exercises including building and testing circuits and devices studied. NR

ET 201
ROBOTICS FUNDAMENTALS
2 Units 1.5 hours lecture 1.5 hours lab
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. NR

ET 202
INTERMEDIATE ROBOTICS
2 Units 1.5 hours lecture 1.5 hours lab
Recommended Preparation: ET 201
Study of intermediate level robotics systems, including mechanical and electronic components and subsystems, microcontrollers, sensors, motors/servos, and software. Each student will purchase a robotic arm and construct, program, test, and troubleshoot it to perform specified tasks. NR

Emergency Medical Technology

EMT 207
EMERGENCY MEDICAL TECHNICIAN PROCEDURES

11 Units 10 hours lecture 3 hours lab

Limitation: American Heart Association Basic Life Support (BLS) Healthcare Provider certification, physical/health exam, and criminal background check required.
Corequisite: EMT 207
Designed to develop students into proficient and compassionate prehospital emergency professionals who conduct themselves with integrity and humility. Covers the cognitive, psychomotor, and affective aspects of Basic Life Support level prehospital care as identified in the National EMS Education Standards, including biochemistry, anatomy, physiology, pathophysiology, assessment and treatment interventions, operations, administration, safety, and well-being. Students must achieve an overall final grade of 80% or above in EMT 207, and successfully complete all four clinical shifts in EMT 207C, to be awarded a course completion certificate, which is required to take the National Registry EMT written examination and become certified as an EMT. Also satisfies Orange County EMT accreditation training requirements. NR

EMT 207C
EMERGENCY MEDICAL TECHNICIAN CLINICAL OBSERVATION
0.75 Unit 2 hours lab

Limitation: American Heart Association Basic Life Support (BLS) Healthcare Provider certification, physical / health exam, and criminal background check required.
Corequisite: EMT 207
Provides opportunity to practice clinical skills in hospital emergency department, on an ambulance, and/or during in-class or online scenarios. Successful completion of both EMT 207 and EMT 207C is required to be eligible to take the National Registry EMT examination and become certified as an EMT. Corequisite course for EMT 207. NR

EMT 210
EMERGENCY MEDICAL TECHNICIAN REFRESHER COURSE
1.25 Units 1 hour lecture 0.75 hour lab

Recommended Preparation: Successful completion of any state-approved Emergency Medical Technician training program
Designed for EMTs who need to renew their certification. Covers select cognitive, psychomotor, and affective aspects of Basic Life Support level prehospital emergency medical care as identified in the National EMS Education Standards. Satisfies California EMT recertification requirements, and Orange County EMS Agency (OCEMS) training requirements for EMT accreditation based on the OCEMS 2015 EMT Scope of Practice Curriculum. Also satisfies 24 hours of the 72 hours required by NREMT for renewal, excluding topics required and skills evaluated. NR

EMT 219
PARAMEDIC PREPARATION
4 Units 4 hours lecture

Limitation: Current EMT certification
Designed for currently certified EMTs seeking to enter a paramedic education program in the near future. Focuses on select prehospital foundational topics including biochemistry, cellular physiology, acid-base balance, respiratory physiology and disorders of ventilation and oxygenation, cardiovascular physiology and hemodynamic imbalances, neurophysiology, macronutrient metabolism and diabetes mellitus, and pharmacological principles and procedures intended to address alterations in the physiology of core body systems. NR

Engineering

ENGR 31
STATICS
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR
**English**

**PRINCIPLES OF COMPOSITION I**

4 Units 4 hours lecture

Transfers: CSU, UC

Prerequisite: Satisfactory score on the English Placement Examination or completion of ENG 200 with a grade of "C" or better

Written English and MLA format.

Non-fiction sources using Standard Written English and MLA format. Credit may be earned for ENG 1A or ENG 1AH but not both. NR

**PRINCIPLES OF COMPOSITION II**

3 Units 3 hours lecture

Transfers: CSU, UC

Prerequisite: ENG 1A or ENG 1AH 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. Credit may be earned for ENG 1B or ENG 1BH, but not both. NR

**HONORS PRINCIPLES OF COMPOSITION II**

3 Units 3 hours lecture

Transfers: CSU, UC

Prerequisite: ENG 1A or ENG 1AH with a grade of "C" or better

Provides instruction in critical thinking and in writing a research paper with an argumentative thesis and academic-style analytical and argumentative essays. The writing totals a minimum of 8,000 words.

Instruction focuses on the development of logical reasoning, on analytical and argumentative writing skills; on research strategies, with emphasis on use of scholarly sources and field research; and on an oral presentation of research findings. Assignments are derived from complex interdisciplinary nonfiction sources. Credit may be earned for ENG 1B or ENG 1BH, but not both. NR

**INTRODUCTION TO CREATIVE WRITING**

3 Units 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A

Emphasizes the writing of prose, poetry, and drama stressing critical judgment of these forms. NR

**FICTION FUNDAMENTALS**

3 Units 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A

Teaches the fundamentals of storytelling or narrative art, including the basic elements and narrative modes of fiction. Students read published short stories, write fictional works, and assess student fiction manuscripts. NR

**SURVEY OF AMERICAN LITERATURE - 1620-1860**

3 Units 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A

Emphasizes major ideas, authors, and forms from the late 19th century to present. NR
ENG 19
SHAKESPEARE - THE COMEDI ES
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

ENG 21A
WORLD LITERATURE - ANCIENT TO 17TH CENTURY
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
A survey of major authors and literary forms from antiquity to 17th century from world cultures. NR

ENG 21B
WORLD LITERATURE - 17TH CENTURY TO MODERN PERIOD
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
A survey of major authors and literary forms from the 17th century to the modern period from world cultures. NR

ENG 24
ETHNIC VOICES IN LITERATURE - THE AMERICAN EXPERIENCE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
Examines literary works of African-American, Native-American, Arab-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. NR

ENG 25
INTRODUCTION TO LITERATURE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: 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. NR

ENG 27A
INTRODUCTION TO THE NOVEL
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
Surveys American, British, French, and Russian novels emphasizing form, content, philosophical and historical perspectives, and criticism. NR

ENG 27AH
HONORS INTRODUCTION TO THE NOVEL
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
Surveys American, British, French, and Russian novels emphasizing form, content, philosophical and historical perspectives, and criticism. The honors course is enriched by smaller class size and by scholarly background of faculty. Letter grade only. NR

ENG 27E
WRITING THE FICTION AND/OR NONFICTION BOOK
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: Eligibility for ENG 1A or 3
Recommended Preparation: Engagement in an academic major disciplines who seek to develop writing principles and techniques for the marketing of book-length fiction and non-fiction which gain insight into works of literature. Lecture-3 hours.

ENG 44
CLASSICAL MYTHOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
A study of Greek and Roman myths and legends. Emphasizes the historical sources and the cultural functions of myth and legend in the ancient societies along with their continuing impact upon modern thought. NR

ENG 52
THE FILM AS LITERATURE
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

ENG 70
REASONING AND COLLEGE READING
3 Units 3 hours lecture
Transfers: CSU, UC
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 and on information literacy, research strategies, and proper documentation with a minimum of 6,000 words of formal writing (formerly ENG 170). NR

ENG 104
WRITING SHORT STORIES
3 Units 3 hours lecture
Transfers: CSU
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. NR

ENG 107
WRITING THE FICTION AND/ OR NONFICTION BOOK
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: Engagement in an academic major disciplines who seek to develop writing principles and techniques for the marketing of book-length fiction and non-fiction which gain insight into works of literature. Lecture-3 hours.

ENG 142
CHILDREN'S LITERATURE
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: 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
ENG 160
LITERARY MAGAZINE
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Recommended Preparation: ENG 1A, 1AH, or 3
An introduction and practice in the distinctive elements of literary
magazine production, providing
firsthand experience in the various
phases of editing and publishing a
small press literary magazine. NR

ENG 180
SPEED READING AND
COMPREHENSION TRAINING
3 Units 3 hours lecture
Transfers: CSU
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. NR

ENG 190
ACADEMIC READING - SUCCESS
AND STRATEGIES FOR COLLEGE
3 Units 3 hours lecture
Transfers: CSU
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. NR

ENG 200
FUNDAMENTALS OF COMPOSITION
4 Units 4 hours lecture
Prerequisite: Satisfactory score on the English Placement
Examination or completion of ENG 300, 340, or comparable course
with a grade of "C" or better
Focuses on developmental writing, culminating in thesis-driven short
essays and totaling at least 5,000 words for the semester. Students will
complete reading analyses, in-class
writing, and out-of-class assignments to prepare for successful writing
across the disciplines. NR

ENG 221
ACADEMIC READING - HUMAN
ANATOMY
1 Unit 1 hour lecture
Designed to improve reading
comprehension and academic success in the subject area of human
anatomy. The student will use course materials from the BIO 11, Human
Anatomy, class to improve academic reading comprehension, apply study skills
strategies, and develop discipline-specific vocabulary. NR

ENG 222
ACADEMIC READING - PHYSIOLOGY
1 Unit 1 hour lecture
Designed to improve reading
comprehension and academic success in the subject area of physiology. The
student will use course materials from the BIO 12, Human Physiology,
class to improve academic reading comprehension, apply study skills
strategies, and develop discipline-specific vocabulary. NR

ENG 227
NOVEL WORKSHOP - REVISING MANUSCRIPTS FOR
PUBLICATION
3 Units 3 hours lecture
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. NR

ENG 300
BEGINNING WRITING
3 Units 3 hours lecture
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. NR

ENG 301
BEGINNING WRITING LAB
0.25 Unit 1 hour lab
Corequisite: ENG 300
Lab designed to complement the writing techniques taught in English
300, Beginning Writing. Four modules will include the following:
prewriting; paragraph development; sentence combining; grammar, usage, and
punctuation. NR

ENG 332
READING AND VOCABULARY
SKILLS LABORATORY-ESL
0 Unit 1.5 hours learning center
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 pass/no pass basis.
R-E-4

ENG 332A
READING AND VOCABULARY
SKILLS LABORATORY-ESL BASE
0.5 Unit 1.5 hours learning center
An entry-level 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. This course is offered on a pass/no pass basis (formerly ENG 332). NR
ENG 332B
READING AND VOCABULARY SKILLS LABORATORY - ESL INTERMEDIATE
0.5 Unit 1.5 hours learning center
An intermediate-level 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 in spelling, inferential reading comprehension, vocabulary development, and writing. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis. NR

ENG 332C
READING AND VOCABULARY SKILLS LABORATORY - ESL ADVANCED
0.5 Unit 1.5 hours learning center
An advanced-level 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 in spelling, interpretive and applied reading comprehension, vocabulary development, and writing. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis. NR

ENG 333A
READING SKILLS LABORATORY BASIC
0.5 Unit 1.5 hours learning center
A basic 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: comprehension, vocabulary, spelling, and study skills. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis. NR

ENG 333B
READING SKILLS LABORATORY INTERMEDIATE
0.5 Unit 1.5 hours learning center
An intermediate-level 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: comprehension, vocabulary, spelling, and study skills. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis. NR

ENG 333C
READING SKILLS LABORATORY ADVANCED
0.5 Unit 1.5 hours learning center
An advanced-level 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: comprehension, vocabulary, spelling, reading rate, and study skills. This is an open-entry/open-exit class. This course is offered on a pass/no-pass basis. NR

ENG 334
SPELLING SKILLS FOR COLLEGE
2 Units 2 hours lecture
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. NR

ENG 335
SPELLING LABORATORY
0.5 Unit 1.5 hours lab
Corequisite: ENG 334
Designed to complement the spelling skills taught in ENG 334. Includes diagnosis of individual spelling deficiencies and through individualized instruction, students will sharpen their spelling skills. NR

ENG 340
READING AND WRITING SKILLS FOR COLLEGE
3 Units 3 hours lecture
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. NR

ENG 341
READING LABORATORY
0.5 Unit 1.5 hours lab
Corequisite: ENG 340
Designed to complement the reading skills taught in ENG 340, Reading and Writing Skills for College. Includes work in reading comprehension, reading rate, vocabulary, study skills, and writing. NR

ENG 343
ACADEMIC READING AND STUDY SKILLS FOR CONTENT AREA LAB
0 Unit 1.5 hours lab
Provides individualized, discipline specific instruction in how to understand, organize and assimilate information in college textbook readings. Contextualized instruction and practice in strategies such as annotation, Cornell note-taking, effective test taking strategies and creating concept maps will be provided. In addition, specific content area vocabulary knowledge will be emphasized. This is an open-entry/open-exit class. NR

ENG 345
BUILDING BASIC READING
3 Units 3 hours lecture
Corequisite: ENG 346
Recommended for students whose reading placement scores indicate a substantial need for reading improvement. Focuses on literal
comprehension skills such as stated main idea, implied main idea, major/minor details, sequence, and constructing written summaries of a reading. Materials will be at the student's instructional reading level and range from expository readings to novels and short stories. Vocabulary skills will be developed through instruction in use of context clues and word parts and through extensive recreational reading. Students will develop time management and study techniques.  

**ENG 346**  
**BASIC READING SKILLS LAB**  
0.5 Unit 1.5 hours lab  
Corequisite: ENG 345  
Expands and enhances the reading instruction in ENG 345 through an individualized program designed to meet each student's needs.  

**ENG 390**  
**INTRODUCTION TO COLLEGE ENGLISH**  
4 Units 4 hours lecture  
A course that offers an accelerated pathway to ENG 1A, with preparation in academic reading, writing, and critical thinking necessary for transfer and associate-degree classes. Successful completion of this course allows students to enroll in ENG 1A only at Saddleback College.  

### English as a Second Language  

**ESL 320**  
**BEGINNING MULTISKILLS I**  
6 Units 6 hours lecture  
A low-beginning course in English for non-native speakers. Emphasis is on speaking, listening, reading, writing, grammar, and vocabulary. 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**  
**BEGINNING MULTISKILLS II**  
0 Unit 6 hours lecture  
Recommended Preparation: ESL 320  
A high-beginning course in English for non-native speakers. Emphasis is on listening, speaking, reading, writing, grammar, and vocabulary. 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**  
**BEGINNING CONVERSATION**  
3 Units 3 hours lecture  
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**  
**BEGINNING PRONUNCIATION**  
3 Units 3 hours lecture  
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**  
**BEGINNING READING AND WRITING**  
3 Units 3 hours lecture  
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 326**  
**BEGINNING CONVERSATION**  
6 Units 6 hours lecture  
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 328**  
**BEGINNING PRONUNCIATION**  
6 Units 6 hours lecture  
Recommended Preparation: ESL 320  
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 329**  
**BEGINNING CONVERSATION**  
6 Units 6 hours lecture  
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 330**  
**BEGINNING CONVERSATION**  
0 Unit 6 hours lecture  
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 325  
BEGINNING READING AND WRITING  
0 Unit 3 hours lecture  
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.  
R-E-4

ESL 330  
INTERMEDIATE多 SKILLS I  
0 Unit 6 hours lecture  
Recommended Preparation: ESL 321  
A low-intermediate course in English for non-native speakers. Emphasis is on further development in listening, speaking, reading, writing, grammar and vocabulary. 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-E-4

ESL 331  
INTERMEDIATE多 SKILLS II  
6 Units 6 hours lecture  
Recommended Preparation: ESL 330  
A high-intermediate English course for non-native speakers. Emphasis is on listening, speaking, reading, writing, grammar, and vocabulary. 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-E-4

ESL 332  
INTERMEDIATE多 SKILLS I  
3 Units 3 hours lecture  
Recommended Preparation: ESL 321 or 322  
The second in the ESL conversation series 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.  
NR

ESL 333  
INTERMEDIATE多 SKILLS II  
3 Units 3 hours lecture  
Recommended Preparation: ESL 330  
A high-intermediate English course for non-native speakers. Emphasis is on listening, speaking, reading, writing, grammar, and vocabulary. 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-E-4

ESL 333  
INTERMEDIATE多 SKILLS I  
3 Units 3 hours lecture  
Recommended Preparation: ESL 330  
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.  
NR

ESL 335  
INTERMEDIATE多 SKILLS I  
0 Unit 3 hours lecture  
Recommended Preparation: ESL 321 or 325  
Designed for the non-native speaker of English focusing on low intermediate-level writing skills. Emphasis is on gaining control of low intermediate level sentence patterns, basic conventions of standard written English, and basic paragraph forms. Reading, vocabulary, and grammar activities support and supplement writing instruction. 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.  
NR

ESL 335  
INTERMEDIATE多 SKILLS I  
0 Unit 3 hours lecture  
Recommended Preparation: ESL 321 or 325  
Designed for the non-native speaker of English focusing on low intermediate-level writing skills. Emphasis is on gaining control of low intermediate level sentence patterns, basic conventions of standard written English, and basic paragraph forms. Reading, vocabulary, and grammar activities support and supplement writing instruction. 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.  
NR
English, and basic paragraph forms. Reading, vocabulary, and grammar activities support and supplement writing instruction. 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. The unit version of this course is not open-entry/open-exit and may not be repeated. R-E-4

**ESL 336**
**INTERMEDIATE WRITING II**
3 Units 3 hours lecture
Prerequisite: ESL 330 or 335
Corequisite: ESL 801
Designed for the non-native speaker of English focusing on high-intermediate-level writing skills. Emphasis on high-intermediate-level sentence patterns, conventions of standard written English, and paragraph forms. Reading, vocabulary, and grammar activities support and supplement writing instruction. 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. NR

**ESL 336**
**INTERMEDIATE WRITING II**
0 Unit 3 hours lecture
Prerequisite: ESL 330 or 335
Corequisite: ESL 801
Designed for the non-native speaker of English focusing on high-intermediate-level writing skills. Emphasis is on gaining control of high-intermediate-level sentence patterns, conventions of standard written English and paragraph forms. Reading, vocabulary, and grammar activities support and supplement writing instruction. 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-E-4

**ESL 340**
**ADVANCED MULTI SKILLS**
6 Units 6 hours lecture
Recommended Preparation: ESL 331
An advanced English course for non-native speakers, incorporating academic skills. Emphasis is on further development in listening, speaking, reading, writing, grammar, and vocabulary in general and academic contexts. 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. NR

**ESL 340**
**ADVANCED MULTI SKILLS**
0 Unit 6 hours lecture
Recommended Preparation: ESL 331
An advanced English course for non-native speakers, incorporating academic language skills. Emphasis is on further development in listening, speaking, reading, writing, grammar, and vocabulary. 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-E-4

**ESL 340**
**ADVANCED CONVERSATION**
3 Units 3 hours lecture
Recommended Preparation: ESL 331 or 332
Completes the ESL conversation series and 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. NR

**ESL 342**
**ADVANCED CONVERSATION**
0 Unit 3 hours lecture
Recommended Preparation: ESL 331 or 332
Completes the ESL conversation series and 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. R-E-4

**ESL 342**
**ADVANCED CONVERSATION**
0 Unit 3 hours lecture
Recommended Preparation: ESL 331 or 332
Completes the ESL conversation series and 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. NR

**ESL 343**
**ADVANCED PRONUNCIATION**
3 Units 3 hours lecture
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. NR

**ESL 344**
**IDIOMS AND EXPRESSIONS IN AMERICAN ENGLISH**
3 Units 3 hours lecture
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. NR

**ESL 344**
**IDIOMS AND EXPRESSIONS IN AMERICAN ENGLISH**
0 Unit 3 hours lecture
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. R-E-4

ESL 345
ADVANCED WRITING I
3 Units 3 hours lecture
Prerequisite: ESL 331 or 336
Corequisite: ESL 802
Designed for the non-native speaker of English focusing on advanced-level writing skills. Emphasis is on gaining control of complex sentence patterns and standard rhetorical patterns. Reading, vocabulary, and grammar activities support and supplement writing instruction. 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. NR

ESL 346
ADVANCED WRITING FOR WORK
3 Units 3 hours lecture
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. R-E-4

ESL 347
ADVANCED GRAMMAR REVIEW
3 Units 3 hours lecture
Corequisite: ESL 901
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. R-E-4

ESL 350
ESSENTIAL ACADEMIC SKILLS
6 Units 6 hours lecture
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve 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. NR

ESL 350
ESSENTIAL ACADEMIC SKILLS
6 Units 6 hours lecture
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve 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.  R-E-4

ESL 354
VOCABULARY SKILLS FOR COLLEGE
3 Units 3 hours lecture
  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.  NR

ESL 355
ESL READING FOR COLLEGE - AMERICAN LITERATURE
3 Units 3 hours lecture
  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.  R-E-4

ESL 356
ACADEMIC SUCCESS STRATEGIES FOR ESL STUDENTS
3 Units 3 hours lecture
  Recommended Preparation: ESL 340 or 345 or 358
This course is designed to improve advanced ESL students' academic language skills and likelihood of academic success. Using lecture and textbook materials from a college level course, students will develop study and test-taking strategies, academic discipline-specific vocabulary, classroom participation skills, reading, writing, and note-taking skills. 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.  NR

ESL 357
GRAMMAR REVIEW FOR COLLEGE
3 Units 3 hours lecture
  Corequisite: ESL 902
  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.  NR

ESL 358
LISTENING AND NOTE-TAKING SKILLS FOR COLLEGE
3 Units 3 hours lecture
  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 358**  
LISTENING AND NOTE-TAKING SKILLS FOR COLLEGE  
0 Unit 3 hours lecture  
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**  
AMERICAN LANGUAGE AND CULTURE THROUGH FILM  
3 Units 3 hours lecture  
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 802**  
ADVANCED WRITING I LAB  
0.5 Unit 1.5 hours lab  
Corequisite: ESL 345  
Requires concurrent enrollment in ESL 345, Advanced Writing I. Enhances and provides practice in skills learned in ESL 345. Focus is on the development of spelling, vocabulary, grammar, punctuation and reading skills leading to improved writing. Students may attend the lab at any time on a first-come, first-served basis. The unit version of this course is not repeatable.  

**ESL 901**  
ADVANCED GRAMMAR REVIEW LAB  
0.25 Unit 1 hour learning center  
Corequisite: ESL 347  
Enhances and provides practice in skills learned in ESL 347. Provides opportunities for students to practice grammar constructions that are difficult for non-native speakers of English, such as correct form and function of verb tenses in passive and active voice, modals, and modal-like constructions. 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 902**  
GRAMMAR REVIEW FOR COLLEGE LAB  
0 Unit 1 hour learning center  
Corequisite: ESL 347  
Provides opportunities for students to practice grammar constructions that are difficult for non-native speakers of English, such as correct form and function of verb tenses in passive and active voice, modals, and modal-like constructions. 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.
Corequisite: ESL 357
Enhances and provides practice in skills learned in ESL 357. Provides opportunities for students who are non-native speakers to practice compound and complex sentences and their grammar constructions, such as gerunds and infinitives in both active and passive voice, and noun, adjective, adverb, and conditional phrases. 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-E-4

ETT 40
STAGECRAFT
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
An introduction to technical theatre and the creation of scenic elements. Includes basic concepts of design, painting techniques, set construction, set movement, prop construction, backstage organization, career possibilities, stage management, lighting, and sound techniques. NR

ETT 41
LIGHTING DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: ETT 40
The study and execution of stage lighting with emphasis on equipment, control, color and their relationship to design. Requires participation as crew or construction member on Theatre Arts department productions. NR

ETT 42
COSTUME DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. Crew assignments for major productions will provide practice in construction techniques. NR

ETT 45
INTRODUCTION TO SCENIC DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: ETT 40
The principles and practice of scenic design. Topics explored include research into various periods and styles of production with an emphasis on the conceptual idea. Perspective drawing, rendering, and model building are covered. NR

ETT 100
APPLIED TECHNICAL THEATRE PRODUCTION
2 Units 1 hour lecture 4 hours lab
Transfers: CSU
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. NR

ETT 101
FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: ETT 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. Students will be offered a survey of scenery, lighting, sound, costumes, makeup, properties, theatrical equipment and construction techniques through demonstration, and laboratory experience. Information is applicable to all formal theatrical applications. NR

ETT 103
ENTERTAINMENT INTERNSHIP
1 Unit 1 hour lecture
Transfers: CSU
Analyze and apply techniques of job application, interviewing, resume writing, and portfolio presentation specific to the entertainment industry. NR

ETT 142
THEATRE PRODUCTION
1 Unit 0.5 hours lecture 2 hours lab
Transfers: CSU
Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Requires participation as crew or construction member on Theatre Arts department productions. R-E-3

ETT 144
THEATRE SCENERY PAINTING
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
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.  

NR

ETT 240
ADVANCED STAGECRAFT
3 Units 2 hours lecture 3 hours lab
Prerequisite: ETT 40
Principles and techniques of stagecraft, with emphasis on stage properties, alternative materials, computer usage as it relates to automation and organization at theatrical events, automated lighting, alternate spaces, and special effects. Also explores stagecraft as a profession and as it relates to all entertainment, including film, television, and theme parks.  

NR

ETT 242
STYLES OF PAINT FOR THE ENTERTAINMENT INDUSTRY
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: ETT 244
Creating themed environments by exploring period style elements through art, architecture, and concepts of set design. Focuses on practical application techniques and studies. Provides an overview of social, cultural, art, architecture, and period styles and décor from antiquity to the modern age of western civilization applicable to theatrical stage design.  

NR

ETT 244
ADVANCED SCENERY PAINTING
3 Units 2 hours lecture 3 hours lab
Prerequisite: ETT 144
Examines detailed faux finish techniques, and basic mural layouts. Practical application of more advanced painting methods and tools and the estimating of costs and supplies.  

NR

ETT 246
THEATRE AUDIO TECHNOLOGY
3 Units 2 hours lecture 3 hours lab
Prerequisite: ETT 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.  

NR

Environmental Studies

ENV 1
INTRODUCTION TO ENVIRONMENTAL STUDIES
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to environmental studies that includes an overview of human activities within the global ecosystem. Examines population growth, energy use, agricultural techniques, water quality and quantity, biodiversity, air quality, and waste disposal, and searches for solutions while exploring future options.  

NR

ENV 6
SCARCITY AND ENVIRONMENT
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENV 1
Economic methods and tools to analyze basic environmental issues. Combining theoretical analysis with specific applications to environmental challenges as applied to water, air, energy, climate change and human health issues. Looks at market failure as a cause of inefficient resource use, depletion, and environmental pollution. Focuses on microeconomic analysis of environmental regulations, the problem of social cost, policy instrument choice, enforcement of regulations, and estimating benefits of environmental improvements.  

NR

ENV 16
ENVIRONMENTAL DISASTERS
3 Units 3 hours lecture
Transfers: CSU, UC
Past and current environmental disasters will be examined from a multi-dimensional perspective, considering not only the environmental, public health, and social implications, but also regulatory, scientific and policy issues (formerly ENV 126).  

NR

ENV 18
INTRODUCTION TO ECOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
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, field research and field trips to surrounding areas.  

NR

ENV 23
ENVIRONMENTAL GEOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Environmental Geology is the study of the nature and dynamics of the interactions between Earth materials, its deep and near-surface processes, its hydrosphere, biosphere and atmosphere as well as how humans interact with it. Topics include climate and climate change, natural hazards (earthquakes, volcanoes, landslides and floods), resource management (mining, surface and groundwater), energy resources (fossil fuels and alternatives), pollution (water quality and air pollution), monitoring, and human influence. Field trips may be required. Also listed as GEOL 23
Credit given in either area, not both.  

NR

ENV 24
NATURAL HISTORY OF CALIFORNIA
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
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.  

NR

ENV 25
ENVIRONMENTAL HAZARDS TO HEALTH
3 Units 3 hours lecture
Transfers: CSU, UC
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  
ALTERNATIVE ENERGY TECHNOLOGIES  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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. Field trips are required.  

ENV 37  
ENVIRONMENTAL ETHICS  
3 Units 3 hours lecture  
Transfers: CSU, UC  
An overview of basic concepts in the methods of examining current environmental issues and methods for creating judicious environmental policy. Examines the ethical issues raised by environmental challenges and various perspectives on determining our moral obligation to the natural environment. Various arguments/positions from several philosophers will be presented.  

ENV 40  
ENVIRONMENTAL LAW AND POLICY  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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.  

ENV 105  
ENVIRONMENTAL STUDIES INTERNSHIP  
2 Units 1.5 hours lecture 1.5 hours lab  
Transfers: CSU  
Recommended Preparation: ENV 1  
Develop detailed knowledge in the preparation for future environmental work experience through goals and resume development, interview preparation, understanding of team work dynamics, and overview of the on the job site requirements.  

ENV 106  
NATURAL RESOURCE CONSERVATION  
3 Units 3 hours lecture  
Transfers: CSU  
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. Field trips are required.  

ENV 123  
WATER AND SOIL CONSERVATION  
3 Units 3 hours lecture  
Transfers: CSU  
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. Identification of potential solutions to improve water and soil conservation.  

ENV 140  
WATER QUALITY AND MONITORING  
3 Units 2 hours lecture 3 hours lab  
Transfers: CSU  
Learn how to monitor public drinking water quality through study of Federal and State regulations, water contaminants, laboratory analyses, basic scientific concepts, sample collection techniques, interpretation of monitoring data and record keeping.  

ENV 141  
WATER RESOURCES AND MANAGEMENT  
4 Units 4 hours lecture  
Transfers: CSU  
The historical, geographical, legal, and economic bases for the distribution and allocation of water, stressing California and the arid West; the environmental impact of water use; past and current issues and controversies in water distribution and redistribution. Preparation for American Water Works Association (AWWA) Grade 1 and 2 Water Use Efficiency Practitioner certification.  

ENV 200  
VOLUNTEER NATURALIST TRAINING  
2 Units 1.5 hours lecture 1.5 hours lab  
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.  

ENV 202  
GREEN LIVING  
2 Units 2 hours lecture  
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.  

ENV 203  
CERTIFIED INTERPRETIVE GUIDE TRAINING  
2 Units 2 hours lecture  
Offers an opportunity for individuals who work, or would like to work, as guides for parks, museums, or historical landmarks to receive
training in interpretive techniques. Participants who successfully complete the program can also earn an internationally recognized certification from National Association for Interpretation. NR

Ethnic Studies

ES 1
MULTI CULTURAL EXPERIENCES IN THE UNITED STATES
3 Units 3 hours lecture
Transfers: CSU, UC
Examines the cultures of African Americans, Asian Americans, Chicanos(as)/Latinos(as), Middle Eastern Americans, and Native Americans. Focuses on the topics of historical memory, racial and ethnic identity, immigration status, class differences, gender relations, family structures, sexuality and sexual orientation, and religion, ritual, and healing. Includes an examination of the relationships within and among cultural groups in the United States, and how they interact with the dominant culture (formerly CCS 1 and CCS/ES 2). NR

ES 3
INTRODUCTION TO CHICANA(O) AND LATINA(O) CULTURES
3 Units 3 hours lecture
Transfers: CSU, UC
An introduction to Chicana/o and Latina/o cultures in the United States. Includes an overview of the diverse and multiple experiences of people with ancestry from Mexico, Cuba, Puerto Rico, the Dominican Republic, Central America, and South America. The intersections of class, race/ethnicity, cultural identity, and gender will be explored. NR

Family and Consumer Sciences

FCS 115
CONSUMER ISSUES
3 Units 3 hours lecture
Transfers: CSU
An applied approach to consumer issues and problems enabling one to become an informed consumer. Emphasis is 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. NR

FCS 142
LIFE MANAGEMENT
3 Units 3 hours lecture
Transfers: CSU
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. Investigation of changing roles and lifestyles. Practical applications include balancing home, family, work and individual responsibilities; household planning; work simplification; budgeting; and management of the household. NR

Fashion

FASH 31
TEXTILES
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
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. NR

FASH 100
SEWING FOR FASHION DESIGN I
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: FASH 100
Designed for the student who has completed Sewing for Fashion Design I. Students will continue to build their sewing skills using industrial equipment while constructing the following projects: pants, button down collar shirt and a knit project. Industrial and home sewing techniques will be covered. More challenging fabrics will be used. NR

FASH 111
SEWING FOR FASHION DESIGN II
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: FASH 100
Designed for the student who has completed Sewing for Fashion Design I. Students will continue to build their sewing skills using industrial equipment while constructing the following projects: pants, button down collar shirt and a knit project. Industrial and home sewing techniques will be covered. More challenging fabrics will be used. NR

FASH 112
FASHION SEWING--ADVANCED
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

FASH 113
COUTURE SEWING
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
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. NR

FASH 120
TAI LORING
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

FASH 124
WEARABLE ART
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

FASH 130
FLAT PATTERN DESIGN
4 Units 4 hours lecture 1 hour lab
Transfers: CSU
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. NR

FASH 131
CAD PATTERNMAKING WITH TUKATECH
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: FASH 130
Designed to teach computerized pattern making skills of garment design using Tukatech software. Course includes drafting basic pattern blocks (slopers), manipulating or creating new darts, adding fullness, creating pleats and making new seams on computer program. Tukatech adds computerized flat-pattern dimension to traditional flat pattern and provides a better understanding of the processes involved in producing ready-to-wear or custom apparel. NR

FASH 132
DRAPING FASHION DESIGNS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: FASH 100 or basic sewing skills
Creative apparel designing using fabric-draping techniques on a dress form with application to the individual. NR

FASH 136
APPAREL DESIGN
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

FASH 140
FASHION IMAGE
3 Units 3 hours lecture
Transfers: CSU
Aims to help men and women to look and dress their best, taking into account personal style, lifestyle, goals and budget. Provides tools for evaluating your individual style, accentuating your assets, becoming aware of color, proportion and fit. Professional fashion styling, image management and photo shoots will be included. NR

FASH 141
APPAREL SELECTION
3 Units 3 hours lecture
Transfers: CSU
Concepts of apparel selection for professional and personal needs based on design, culture, image and lifestyles. Includes the study of sociological, physiological, and psychological aspects of dress. The fashion professional uses this information to better design, produce, and select products to meet the needs of a culturally diverse consuming population. NR

FASH 143
FASHION BUYING AND MERCHANDISING
3 Units 3 hours lecture
Transfers: CSU
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. NR

FASH 144
FASHION TRENDS AND CULTURAL COSTUMES
3 Units 3 hours lecture
Transfers: CSU
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 on clothing design, textiles, and fashion from ancient to modern civilization. Includes cultures throughout the world. NR
FASH 145  INTERNSHIP
1 Unit 1 hour lecture
Transfers: CSU
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. NR

FASH 147  SPECIAL EVENTS COORDINATION AND PROMOTION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

FASH 148  VISUAL MERCHANDISING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

FASH 150  FASHION APPAREL AND PROFESSIONAL TECHNIQUES
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

FASH 154  FASHION ILLUSTRATION
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

FASH 204  UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION
1 Unit 1 hour lecture 0.5 hours lab
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. NR

FASH 205  CORSET CONSTRUCTION
3 Units 2.5 hours lecture 1.5 hours lab
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. NR

FASH 206  DESIGNING & CONSTRUCTING KNITWEAR, ACTIVEWEAR, SWIMWEAR
3 Units 2.5 hours lecture 1.5 hours lab
Recommended Preparation: FASH 100
Focuses on sewing, constructing, and designing knitwear garments. Specialty techniques, types of knits, industrial machines used with knits, and basic pattern-making will be covered. Students will create garments ranging from tops to bottoms, dresses, activewear, and swimwear. NR

FASH 207  ECO-FRIENDLY FASHION TOUR
1 Unit 0.5 hours lecture 1.5 hours lab
Learn how professionals in the fashion industry are minimizing their businesses impact on the earth and "going green." Students will visit designers, retailers, textile manufactures and "eco-preneurs" to learn how they have become fashion crusaders with light footprints. Includes site visits and on-site lectures and presentations. NR

FASH 208  SEWING VINTAGE FASHIONS
3 Units 2.5 hours lecture 1.5 hours lab
Recommended Preparation: FASH 100 and 111
Construct garments using vintage sewing patterns. Great for both Fashion and Costuming. Reproduce vintage clothing from 1880 through 1970s using actual and reproduced patterns. Sewing techniques from the past and their modern interpretations will also be examined. Course will include the history and evolution of patterns, sewing machines, sergers, irons, notions and equipment. NR

FASH 209  CONSTRUCTION OF CHILDREN'S CLOTHING
2 Units 1 hour lecture 3 hours lab
Recommended Preparation: FASH 100 or basic sewing skills
Study one of the fastest growing and most lucrative segments of the
fashion industry. Gain experience in the construction and design of children’s and tween’s clothing and pattern design. Use of commercial patterns as well as manipulation of existing patterns and blocks to create new designs for children’s garments. Also includes both traditional and contemporary decorative embellishments, suitable for children’s wear industry.  NR

FASH 210
CLOTHING CONSTRUCTION STUDIO
1 Unit 3 hours lab
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.  NR

FASH 211
ADVANCED DRESSMAKING AND CUSTOM SEWING
3 Units 2.5 hours lecture 1.5 hours lab
Recommended Preparation: FASH 100
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.  NR

FASH 212
CONSTRUCTION LAB
1 Unit 3 hours lab
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 pass/no pass.  NR

FASH 213
DESIGNER’S LAB
1 Unit 3 hours lab
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 pass/no pass.  NR

FASH 214
COUTURE LAB
1 Unit 3 hours lab
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.  NR

FASH 216
COSTUMER’S LAB
1 Unit 3 hours lab
Includes demonstration and practice of specialty sewing skills necessary for the costuming 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.  NR

FASH 217
FOOTWEAR DESIGN AND CONSTRUCTION
2 Units 1.5 hours lecture 2 hours lab
Design and construct footwear/shoes for an accessory line or that complete your clothing line, compliment ensembles, theatrical costumes or stand alone as wearable art. Explores historical and ethnic inspirations as well as current market interests and trends. Covers design methods, construction techniques and sources for materials. Suggested for students interested in Fashion Design and Costuming.  NR

FASH 218
NEW YORK STUDY TOUR
2 Units 1.5 hours lecture 1.5 hours lab
Travel to New York, the fashion capital of the United States. Students will connect with industry, observe the workplace in action, explore employment, and internship opportunities within New York City. May include field trips to apparel and textile manufacturers, showrooms, CAD companies, trend forecasters, visual display showrooms, publications, retail stores, buying offices, and museum collections. Learn about New York's role as one of the four major fashion capitals of the world.  NR

FASH 219
DRESSMAKING LAB
1 Unit 3 hours lab
Includes demonstration and practice of intermediate sewing skills necessary for fashion students. Course includes exposure and use of industrial sewing machines, sergers, industrial dress forms and industrial irons in a professional studio. Offered as open-entry/open-exit as pass/no pass.  NR

FASH 220
TAILOR’S LAB
1 Unit 3 hours lab
Recommended Preparation: FASH 111
Includes demonstration and practice of Tailoring 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. Recommended for advanced fashion students. Offered as open-entry/open-exit and pass/no-pass.  NR
FASH 221
CONTEMPORARY TAILORING
2 Units 1 hour lecture 3 hours lab
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. NR

FASH 223
MILLINERY DESIGN
3 Units 2.5 hours lecture 1.5 hours lab
Learn the historical art of millinery. Design and construct hats as an accessory line, complete your clothing line, for theatrical costumes, or as wearable art. Covers historical and ethnic inspirations as well as current market interests and trends. Includes design methods, construction techniques and sources for materials. Ideal for students interested in Fashion Design and Costume Design. NR

FASH 224
ACCESSORY DESIGN
3 Units 2.5 hours lecture 1.5 hours lab
Design and develop a line of accessories. Course covers process of accessory design from inspiration to sourcing and manufacturing of handbags, small leather goods, footwear, millinery, gloves, belts, and neckwear. Overview of accessory history as well as current market trends and designers. Construction methods and manufacturing processes for accessories will be covered. NR

FASH 225
APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP
1 Unit 1 hour lecture 1 hour lab
Create an online store for your fashion business using Apparel Easy Shop and other retail software. Course covers building your online store with full web administration, credit card processing, secure customer shopping, and many other features specific to apparel. Includes social media integration and online marketing. NR

FASH 230
ALTERATIONS AND FITTING
3 Units 2.5 hours lecture 1.5 hours lab
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. NR

FASH 234
ADVANCED PATTERN AND DESIGN TECHNIQUES
2 Units 1 hour lecture 3 hours lab
Prerequisite: FASH 130
Translate complex original designs into garments. Includes instruction in industrial pattern and apparel construction. Students will develop style designs and patterns. NR

FASH 235
DESIGNING FOR THE FASHION INDUSTRY
2 Units 1 hour lecture 3 hours lab
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, men’s and women’s sportswear, active sportswear, after-five, and children’s wear. Students will deal with the problems of working ahead of fashion seasons, production costs, sale-ability, and manufacture-ability of garments. Emphasis also will be placed on improving design techniques. NR

FASH 238
ADVANCED DRAPING AND FASHION DESIGN
2 Units 1 hour lecture 3 hours lab
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. NR

FASH 240
DYE PROCESSES ON FABRICS
3 Units 2.5 hours lecture 1.5 hours lab
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 design students. NR

FASH 247
SPECIAL EVENTS PARTICIPATION
1 Unit 1 hour lecture 0.5 hours lab
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. NR

FASH 250
FASHION TRENDS FORECASTING
1.5 Units 1 hour lecture 1.5 hours lab
Research and identify key trends in the apparel industry. Fashion forecasting research will include looking at fashion silhouette, textiles and colors, then projecting what future fashion trends will be. Covers analysis of trend forecasting companies, street fashion and couture. NR

FASH 251
DESIGNING FOR A CAUSE AND SUSTAINABLE FASHION
3 Units 2 hours lecture 3 hours lab

Recommended Preparation: FASH 100, 130 and 154

Designed to teach the basic skills of garment design while promoting a particular cause. Learn how to develop a line, sources of eco-inspiration, trend reports and the elements of a successful apparel line. Explore relationships between philanthropic companies in the textiles, apparel, and retailing and other “green” companies. Drapery and pattern making using the basic block, fitting techniques, and manipulating pattern or drape to create apparel with design details.  

Food and Nutrition

FN 50
FUNDAMENTALS OF NUTRITION
3 Units 3 hours lecture

Transfers: CSU, UC

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
NUTRITION ISSUES AND CONTROVERSIES
3 Units 3 hours lecture

Transfers: CSU, UC

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
FOOD PREPARATION ESSENTIALS
3 Units 2 hours lecture 3 hours lab

Transfers: CSU

Prerequisite: FN 171 or FN 210 or current ServSafe Certification

Recommended Preparation: Eligibility for ENG 1A

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
CONTEMPORARY MEALS
3 Units 2 hours lecture 3 hours lab

Transfers: CSU

Prerequisite: FN 171 or FN 210 or current ServSafe Certification

Topics emphasized include the close links among growing vegetables and herbs, preparing healthy and nutritious meals, sustainability in the food service industry, and understanding the environmental ethics, based upon the “Farm-to-Table” model. Growing, planning, organizing, experimenting, preparing and serving sustainable cuisine will be discussed and taught. Laboratory experiences include “hands on” growing and maintaining an organic garden and preparing sustainable foods.  

FN 140
CULTURAL CUISINE
2 Units 1 hour lecture 3 hours lab

Transfers: CSU

Prerequisite: FN 171 or FN 210 or current ServSafe Certification

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.  

FN 142
CLASSICAL FRENCH CUISINE
2 Units 1 hour lecture 3 hours lab

Transfers: CSU

Prerequisite: FN 171 or FN 210 or current ServSafe Certification

Mastery of techniques in menu planning, preparation, presentation, and service of French cuisine. Professional and commercial applications as well as culinary careers will be explored.  

FN 150
INTRODUCTION TO HOSPITALITY INDUSTRY - MGMT AND SUPERVISION
3 Units 3 hours lecture

Transfers: CSU

Focuses on the qualities and skills needed to manage and train employees in the Hospitality field. An
emphasis will be placed on leadership, training, and supervision. Covers topics such as supervisors as leaders; goal setting; supervisory communication; suggestions for improving communications and social media communications; drivers of diversity; multiculturalism; social media recruiting; hiring suggestions; evaluating on-the-job performance and performance improvement; behaviors of leaders; team building, and teaching methods for training.  

**FN 154**  
**HOSPITALITY - PRODUCTION AND COST CONTROL**  
*3 Units 3 hours lecture*  
Transfers: CSU  
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.  

**FN 157**  
**HOSPITALITY LAW**  
*3 Units 3 hours lecture*  
Transfers: CSU  
Shows students and practicing hospitality managers how to effectively manage their legal environment. By learning to think proactively, students consider how their actions will be viewed in a legal context, thereby precluding many legal difficulties. Familiarizes readers with hospitality legalities, provides relevant exercises, and applies lessons learned to real-world hospitality management situations.  

**FN 160**  
**NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS**  
*3 Units 3 hours lecture*  
Transfers: CSU  
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**  
**NUTRITION FOR HEALTH OCCUPATIONS**  
*2 Units 2 hours lecture*  
Transfers: CSU  
Prerequisite: FN 50  
Covers the essential nutrients and their roles in health and disease, basic dietary guides and tools and how to evaluate nutrition information as to its validity and application; examines in depth the application of nutrition to prevent and manage various clinical conditions and chronic disease, provides practice in developing therapeutic diets appropriate to chronic disease states.  

**FN 164**  
**SPORTS NUTRITION**  
*3 Units 3 hours lecture*  
Transfers: CSU  
Overview of basic nutrition concepts for individuals interested in sports, fitness, and health. Emphasis on current nutrition practices related to athletic performance. Covers energy and nutrient needs, hydration and hyponatremia, specific activity recommendations, supplementation guidelines, NCAA guidelines, collegiate athletics, body composition, and application.  

**FN 171**  
**SANITATION AND SAFETY**  
*2 Units 2 hours lecture*  
Transfers: CSU  
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 173**  
**CATERING AND BANQUETS**  
*3 Units 2 hours lecture 3 hours lab*  
Transfers: CSU  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Recommended Preparation: FN 240 and 244  
Catering skills, personal chef business 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. This course requires students to make themselves available for two catered events within the current semester that may not be scheduled during regular class hours.  

**FN 205**  
**NUTRITION FOR CULINARY PROFESSIONALS**  
*3 Units 3 hours lecture*  
Overview of nutrition including major nutrients, life cycle needs, energy balance, role of food and nutrition in culinary arts, and consumer expectations and industry response.  

**FN 210**  
**SERVSAFE IN FOOD PRODUCTION**  
*1 Unit 1 hour lecture*  
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.  

**FN 220**  
**FRENCH BISTRO CUISINE**  
*2 Units 1 hour lecture 3 hours lab*  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Exploration and preparation of the foods of provincial France. Students will gain practical experience in the planning and preparation of representative Provençal French bistro specialties and menus.
Attention will be given to techniques, methods, and presentation for the catering and restaurant industry.  NR

FN 222
CHINESE CUISINE  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
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.  NR

FN 223
ASIAN CUISINE  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
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.  NR

FN 226
MEXICAN CUISINE  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
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.  NR

FN 227
MEDITERRANEAN CUISINE  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
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.  NR

FN 228
ITALIAN CUISINE  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
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.  NR

FN 230
VEGETARIAN CUISINE  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
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.  NR

FN 232
TECHNIQUES OF HEALTHY COOKING  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Focus on the art of preparing and presenting healthy 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 items including health benefits and recommendations for healthy food choices, planning, and use of specialized ingredients.  NR

FN 236
AMERICAN REGIONAL CUISINE  
2 Units 1 hour lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
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.  NR

FN 240
CULINARY PRINCIPLES I  
3 Units 2 hours lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Recommended Preparation: FN 246  
Introduction to the professional field of Culinary Arts. Beginning students will gain a general understanding of cooking theory while developing professional culinary arts skills. Basic cooking principles of stocks, sauces, soups, poultry, vegetable and starches will be included. Development of culinary skills through lab applications.  NR

FN 241
CULINARY PRINCIPLES II  
3 Units 2 hours lecture 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Recommended Preparation: FN 240  
Advanced principles and techniques of culinary arts will be covered. Practical experience in techniques, preparation, presentation and service of poultry, meats, fish and shellfish, charcuterie will be explored. Purchasing, storage and quality
control of products will be taught. NR

FN 244
BAKING FUNDAMENTALS I
3 Units 2 hours lecture 3 hours lab
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Fundamental principles of baking, including weights and measurement techniques, ingredients and their uses. Includes cookies, pies and pie fillings, quick breads, yeast doughs and custards. NR

FN 245
BAKING FUNDAMENTALS II
2 Units 1 hour lecture 3 hours lab
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Recommended Preparation: FN 244
Emphasis on specialty and advanced baking skills, techniques, methods and presentation. Hands-on production of pastries, cakes and fillings, puff dough, mousses and bavarians integrated with accompaniments from international cuisines. NR

FN 246
PANTRY
3 Units 2 hours lecture 3 hours lab
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Fundamental principles of pantry preparation will be covered. Practical experience in techniques, preparation, presentation and service of cold sauces, salads, sandwiches and breakfast items and cheese selection will be explored. Purchasing, storage and quality control of pantry products are included. NR

FN 261
INTERNSHIP
1 Unit 1 hour lecture
Students will be taught the skill set necessary to secure an internship/job placement, learn desirable professional skills, resume writing, interview techniques and time management skills. NR

FN 275
FOOD AND BEVERAGE OPERATIONS
3 Units 3 hours lecture
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. Also covers management theory, marketing plan development, food and beverage service, facility design and equipment. NR

FR 1
ELEMENTARY FRENCH
5 Units 5 hours lecture
Transfers: CSU, UC
Corequisite: FR 901
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. NR

FR 2
ELEMENTARY FRENCH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: FR 1 or two years of high school French
Corequisite: FR 902
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. NR

FR 3
INTERMEDIATE FRENCH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: FR 2 or three years of high school French
Corequisite: FR 903
Reviews the fundamentals with further study of the French language and culture. NR

FR 4
INTERMEDIATE FRENCH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: FR 3 or four years of high school French
Corequisite: FR 904
Concentrates on the development of fluency in the skills needed to communicate in French. Further study of cultural topics. NR

FR 10
INTERMEDIATE CONVERSATIONAL FRENCH
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: FR 2 or four 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. NR

FR 21
INTRODUCTION TO FRENCH LANGUAGE AND CULTURE
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

FR 901
FRENCH LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: FR 1
Requires concurrent enrollment in French 1. Enhances and provides practice in skills learned in French 1 Language course. NR

FR 902
FRENCH LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: FR 2
Requires concurrent enrollment in French 2. Enhances and provides
practice in skills learned in French 2 Language course.  NR

FR 903
FRENCH LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: FR 3
Requires concurrent enrollment in French 3. Enhances and provides practice in skills learned in the French 3 course.  NR

FR 904
FRENCH LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: FR 4
Requires concurrent enrollment in French 4. Enhances and provides practice in skills learned in the French 4 course.  NR

Geographic Information Systems

GIS 110
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Also listed as GEOG 110. Credit given in either area, not both. NR

GIS 211
INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)
2 Units 1 hour lecture 3 hours lab
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. NR

Geography

GEOG 1
PHYSICAL GEOGRAPHY
3 Units 3 hours lecture
Transfers: CSU, UC
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. C-ID: GEOG 110  NR

GEOG 1H
HONORS PHYSICAL GEOGRAPHY
3 Units 3 hours lecture
Transfers: CSU, UC
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. The honors course is enriched by a smaller class size, allowing mentored individual research, the level of sources used in research, and presentation of research in a public poster session. Credit may be earned for either 2 or 2H, but not both. Letter grade only. C-ID: GEOG 120  NR

GEOG 1L
PHYSICAL GEOGRAPHY LABORATORY
1 Unit 3 hours lab
Transfers: CSU, UC
Prerequisite: Taken concurrently with GEOG 1 or 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. C-ID:GEOG 111  NR

GEOG 2
CULTURAL GEOGRAPHY
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to social and political elements of geography and a survey of major cultural patterns.  NR

GEOG 2H
HONORS CULTURAL GEOGRAPHY
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to social and political elements of geography and a survey of major cultural patterns. The Honors course is enriched by a smaller class size, allowing mentored individual research, the level of sources used in research, and presentation of research in a public poster session. Credit may be earned for either 2 or 2H, but not both. Letter grade only. C-ID: GEOG 120  NR

GEOG 3
WORLD REGIONAL GEOGRAPHY
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to the world's geographical regions and major countries with an emphasis on human cultural patterns and their evolution in diverse physical environments.  NR

GEOG 38
CALIFORNIA GEOGRAPHY
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

GEOG 102
GEOGRAPHY FIELD STUDIES
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
A lecture and laboratory field course to study the physical and cultural geography of Western North America.
Thematic emphasis and course content will vary depending on location.  NR

**GEOG 106**

FIELD STUDIES OF DESERT REGIONS

1 Unit 0.5 hour lecture 1.5 hours lab

Transfers: CSU

Studies the physical and cultural geography of deserts. Thematic emphasis and course content will vary depending on location.  NR

**GEOG 107**

FIELD STUDIES OF MOUNTAIN AREAS

1 Unit 0.5 hour lecture 1.5 hours lab

Transfers: CSU

Studies the physical and cultural geography of mountain areas. Thematic emphasis and course content will vary depending on location.  NR

**GEOG 108**

FIELD GEOGRAPHY

2 Units 1 hour lecture 3 hours lab

Transfers: CSU

Studies physical and cultural geography in the field. Thematic emphasis and course content will vary depending on location.  NR

**GEOG 109**

FIELD STUDIES OF COASTAL REGIONS

1 Unit 0.5 hour lecture 1.5 hours lab

Transfers: CSU

Studies the physical and cultural geography of coastal areas. Thematic emphasis and course content will vary depending on location.  NR

**GEOG 110**

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)

2 Units 1 hour lecture 3 hours lab

Transfers: CSU

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Also listed as GIS 110. Credit given in either area, not both. C-ID: GEOG 155  NR

**GEOG 211**

INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)

2 Units 1 hour lecture 3 hours lab

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.  NR

### Geology

**GEOL 1**

INTRODUCTION TO PHYSICAL GEOLOGY

4 Units 3 hours lecture 3 hours lab

Transfers: CSU, UC

Recommended Preparation: GEOL 1 or 20

A study of the geological and biological evolution of the Earth. Includes an introduction to geologic time; relative and absolute dating methods; stratigraphic principles; the origin of the universe, solar system, atmosphere, oceans and life; plate tectonics; and the evolution of Earth's surface and development of organisms through geologic time. Required lab allows application of lecture content. Field trips may be required to fulfill the objectives of this course.  NR

**GEOL 3**

GEOLOGY OF CALIFORNIA

3 Units 3 hours lecture

Transfers: CSU, UC

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.  NR

**GEOL 4**

NATURAL DISASTERS

3 Units 3 hours lecture

Transfers: CSU, UC

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.  NR

**GEOL 7**

WEATHER AND CLIMATE

3 Units 3 hours lecture

Transfers: CSU, UC
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. NR

GEOL 20
INTRODUCTION TO EARTH SCIENCE
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
An introduction to the Earth sciences, including geology, oceanography, meteorology, and astronomy. Study of the universe, solar system, solid earth (rocks, minerals, plate tectonics, mountain-building, and earthquakes), oceans, coastlines, the atmosphere, and life, past and present. Field trips may be required to fulfill the objectives of this course. NR

GEOL 21
THE SOLAR SYSTEM
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

GEOL 23
ENVIRONMENTAL GEOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Environmental Geology is the study of the nature and dynamics of the interactions between Earth materials, its deep and near-surface processes, its hydrosphere, biosphere and atmosphere as well as how humans interact with it. Topics include climate and climate change, natural hazards (earthquakes, volcanoes, landslides and floods), resource management (mining, surface and groundwater), energy resources (fossil fuels and alternatives), pollution (water quality and air pollution), monitoring, and human influence. Field trips may be required. Also listed as ENV 23. Credit given in either area, not both. NR

GEOL 170
GEOLOGY OF THE NATIONAL PARKS
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
A grand geologic tour of some of the most scenic areas in the Western states. Itineraries vary, but major parks like Zion, Bryce, Arches, Yellowstone, the Grand Teton and the Grand Canyon are examples of locales visited. Thematic emphasis will vary depending on parks visited. Students in geology and earth sciences are encouraged to enroll. NR

GEOL 171
GEOLOGY OF THE EASTERN SIERRA NEVADA
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Eastern Sierra region and adjacent areas. Thematic emphasis and course content will vary. NR

GEOL 172
GEOLOGY OF THE MOJAVE DESERT
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of the Mojave Desert and adjacent areas. Students in geology and earth sciences are encouraged to enroll. NR

GEOL 173
GEOLOGY OF DEATH VALLEY
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Death Valley National Park and adjacent areas. Thematic emphasis and course content will vary. NR

GEOL 174
GEOLOGY OF THE COLORADO DESERT
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Anza-Borrego Desert Park and adjacent areas. Thematic emphasis and course content will vary. Students in geology and earth sciences are encouraged to enroll. NR

GEOL 175
GEOLOGY OF THE COAST RANGES
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of the Coast Range, Morro Bay, and adjacent areas. Thematic emphasis and course content will vary. NR

GEOL 176
GEOLOGY OF THE EASTERN SIERRA NEVADA
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Eastern Sierra region and adjacent areas. Thematic emphasis and course content will vary. NR

GEOL 177
GEOLOGY OF THE COLORADO DESERT
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Anza-Borrego Desert Park and adjacent areas. Thematic emphasis and course content will vary. Students in geology and earth sciences are encouraged to enroll. NR

GEOL 178
GEOLOGY OF THE COAST RANGES
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of the Coast Range, Morro Bay, and adjacent areas. Thematic emphasis and course content will vary. Students in geology and earth sciences are encouraged to enroll. NR
German

GER 1
ELEMENARY GERMAN
5 Units 5 hours lecture
Transfers: CSU, UC
Corequisite: GER 901
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. NR

GER 2
ELEMENARY GERMAN
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: GER 1 or two years of high school German
Corequisite: GER 902
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. NR

GER 3
INTERMEDIATE GERMAN
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: GER 2 or three years of high school German
Corequisite: GER 903
Reviews the fundamentals with further study of the German language and culture. NR

GER 4
INTERMEDIATE GERMAN
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: GER 3 or four years of high school German
Corequisite: GER 904
Concentrates on the development of fluency in the skills needed to communicate in German. Further study of cultural topics. NR

GER 901
GERMAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: GER 1
Requires concurrent enrollment in German 1. Enhances and provides practice in skills learned in German 1 course. NR

GER 902
GERMAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: GER 2
Requires concurrent enrollment in German 2. Enhances and provides practice in skills learned in German 2 course. NR

GER 903
GERMAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: GER 3
Requires concurrent enrollment in German 3. Enhances and provides practice in skills learned in German 3 course. NR

GER 904
GERMAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: GER 4
Requires concurrent enrollment in German 4. Enhances and provides practice in skills learned in German 4 language course. NR

Graphic Communication

GC 63
INTRODUCTION TO SCREEN PRINTING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: GC 63
Recommended Preparation: GC 140, 147, 149, 154
Advanced theory, methods and techniques of the screen printing process including both spot and process color separations, multiple color registration, screen construction and prep, alternative media and specialized ink systems. Emphasis placed on improving a student's basic printing technique to an advanced skill level. NR

GC 195
GRAPHICS STUDIO
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: GC/ART 63 and 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. NR

GC 210
LETTERPRESS
3 Units 2 hours lecture 3 hours lab
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 digital printing. Letterpress offers a tactile quality and nostalgic look that can't be achieved with any other printing technique.  

**Graphic Design**

**GD 1**

**HISTORY OF ANIMATION**

*3 Units 3 hours lecture*

**Transfers:** CSU, UC

Critical and historical survey of animation as a form of communication and cultural expression, from prehistoric origins to present digital formats. Animation studied in relation to the culture and society in which they were created including U.S., Europe, and Japan. Students analyze and evaluate a large cross-section of animated works (formerly GD 155).  

**GD 140**

**BEGINNING GRAPHIC DESIGN**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

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**

**GRAPHIC RENDERING TECHNIQUES**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Exploration of two-dimensional media for producing graphics and illustrations. Projects encourage development of illustration skills for a variety of design applications. Recognition and choice of techniques for translating concepts into accurate and compelling renderings. Also listed as ART 141. Credit given in either area, not both.  

**GD 142**

**PACKAGE DESIGN**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Introduction to traditional and computer-generated design and construction 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**

**TYPOGRAPHY**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Basic principles of typography explored. Students learn the practical, formal, and communicative aspects of typography as applied to graphic design through problem solving and technical training. Emphasis on developing the creativity and analytical skills required for effective type design.  

**GD 145**

**GRAPHIC ILLUSTRATION**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Develop illustrations for advertising, informational, graphic, 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**

**INTRODUCTION TO COMPUTER GRAPHICS**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Introductory computer graphics course which covers many aspects of computer-generated art and design. The student will use Adobe Creative Suite to create art and graphics with software such as Photoshop, Illustrator, and InDesign.  

**GD 148**

**DIGITAL GRAPHIC DESIGN**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Recommended Preparation: GD/ART 141, GD 147

Introductory course for students interested in graphic design and the computer as used in design. Integrates the graphic design process with the digital process. Develops skills in composition, color use, and typography using InDesign, Photoshop and Illustrator. Assignments range from logo development to magazine layout.  

**GD 149**

**DIGITAL ILLUSTRATION**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Exploration of computer-based vector illustration on the computer. Students will learn and use Adobe Illustrator software to produce finished art.  

**GD 150**

**DIGITAL ANIMATION**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

Recommended Preparation: GD/ART 141, GD 147, 149

Introduction to 2D digital animation production. Modern 2D animation software creates stylish and cost effective presentations that animators, illustrators, and graphic designers use to create dynamic graphic content for animated shorts and TV shows, marketing, and web animation. Course covers complete production process from concept development to final animation.  

**GD 151**

**DIGITAL LAYOUT AND DESIGN**

*3 Units 2 hours lecture 3 hours lab*

**Transfers:** CSU

An introduction to layout design for print and web publishing covering 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.  NR

GD 154
DIGITAL PRE-PRESS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: GD 147 and 151
Digital pre-press production techniques using Macintosh computers to prepare graphic design files for professional printing. Focus on the essential pre-press production skills all graphic designers need to know such as file prep and conversion, trapping, color management, imposition, and color separation. Basic knowledge of graphic design software recommended. Field trips are required.  NR

GD 160
PROFESSIONAL PRACTICES FOR GRAPHIC DESIGNERS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: GD 140
Professional requirements and procedures to launch and maintain successful graphic design practice. Course focuses on the essentials of working as a freelance designer including portfolio development, presentation techniques, client relationships, marketing, implementing an accounting system, and establishing a legal entity.  NR

GD 180
GRAPHIC DESIGN CONCEPTS FOR MOBILE DEVICES
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: GD 140
Basics of designing effective and attractive graphical interfaces for applications (apps) for smart phones and tablets. For beginners and experienced designers, emphasis placed on graphic design principles applied to interface design. Training in industry-standard software to design interfaces for basic apps that run on a variety of operating systems.  NR

GD 199
DIGITAL ILLUSTRATION II
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: GD 149
Recommended Preparation: GD 200
Students will explore more advanced illustration techniques with a greater emphasis on multiple design components and more sophisticated visual concepts. Techniques and processes include digital drawing and painting projects that incorporate the use of vector and raster software programs. Professional applications of digital-based illustration will also be investigated.  NR

GD 200
PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: GD 149
Essentials of Adobe Photoshop as a design and production tool for graphic designers. Focuses on professional studio techniques to master this essential design tool for the creation of sophisticated graphics. Emphasizes efficient workflow, technical proficiency and aesthetic judgment. Students produce portfolio-ready projects using a broad range of imaging skills.  NR

GD 210
MOTION GRAPHICS
3 Units 2 hours lecture 3 hours lab
Introduction to the tools and principles of creating motion graphics. Motion graphics is the dynamic new language of graphic design, combining moving images and typography, special effects, and sound. This course focuses on the fundamentals of Adobe After Effects, and producing impressive and effective motion graphics for advertising and informational uses. Planning, production, and the aesthetic issues of 2-D animation are covered.  NR

GD 240
INTERMEDIATE GRAPHIC DESIGN
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: GD 140 or ART 140
The further study of design concepts used in graphic design as well as portfolio preparation. Studio work will include conceptualization techniques and layout and production of designed formats. Also listed as ART 240. Credit given in either area, not both.  NR

GD 249
BIOMEDICAL ILLUSTRATION
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: GD 149 and 200
Explore and create conceptualized illustrations and diagrammatic illustrations created to foster communication between scientist and author, teacher and student, or physician and patient. Create work that transforms complex information and data into images that explain, inform, and record scientific research and discoveries. Emphasizes the use of vector and raster illustration tools in the creation of instructive biomedical media.  NR

Health

HLTH 1
CONTEMPORARY HEALTH ISSUES
3 Units 3 hours lecture
Transfers: CSU, UC
An exploration into traditional and holistic health topics as they affect the individual, family, community and society. General topics include mental health and stress reduction techniques, emotional wellness, and communication skills. Specific topics include; sexuality and intimate relationships, nutrition, weight management, fitness, aging, dying, narcotics, alcohol, tobacco, reproductive choices, infectious diseases, cardiovascular health, cancer, sleep, and alternative medicine.  NR
Health Information Technology

HI T 200
HEALTH INFORMATION SCIENCE
3 Units 3 hours lecture
Introduction to the health information management profession, including health services organization and delivery methods; sources, collection, maintenance, and analysis of health data; structure and use, requirements and standards for health information; information systems. Letter grade only. NR

HI T 202
REIMBURSEMENT METHODOLOGIES
3 Units 2 hours lecture 3 hours lab
Explores health insurance billing and current payment methodologies in the various healthcare settings. Focuses on compliance with regulatory requirements and common reimbursement practices. Includes specific payment systems and how the information provided by health information management departments impacts the financial viability of health care organizations. Students will also learn how other payers and quality review organizations utilize data. NR

HI T 203
ALTERNATIVE HEALTHCARE DELIVERY SYSTEMS
2 Units 2 hours lecture
Examines the management of health information in the various delivery systems, other than the acute care hospital setting, including home health, hospice, behavioral health, ambulatory settings, long-term care, rehabilitation facilities, managed care, and correctional facilities. Focuses on the structure and content of the records, flow of information, regulations, accreditation requirements and reimbursement. NR

HI T 204
PERFORMANCE IMPROVEMENT IN HEALTHCARE
3 Units 3 hours lecture
An introduction to the quality management and performance improvement process in health care settings, and focuses on collecting, analyzing, and presenting data. The course covers introduction to quality management techniques and tools, patient safety, accreditation, utilization and risk management. Letter grade only. NR

HI T 207
HEALTHCARE INFORMATION TECHNOLOGIES (HCI T)
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: CIM 112, HIT 200
Healthcare Information technologies used in the management of health information; communication and network technologies; data and information file structures; health data collection tools, health information exchanges, data and interchange standards, consumer informatics, data integrity and security. Letter grade only. NR

HI T 209
MANAGEMENT OF RESOURCES IN HEALTHCARE
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: CIM 112
Management of human, financial, and physical resources in a Health Information Management (HIM) department including: leadership, training, teamwork, motivation, staffing and productivity, communication, performance review, tools and techniques for process improvement, budgets, development of policies and procedures, data collection and analysis for strategic planning, information governance, workflow and process monitors, and cultural diversity. Letter grade only. NR

HI T 212
REPORTING HEALTHCARE DATA
2 Units 2 hours lecture
Recommended Preparation: MATH 253
Introduction to statistics in healthcare, reporting of various types of healthcare data, and principles of medical research and planning. This course covers math review and the presentation of data. NR

HI T 215
CPT AND AMBULATORY CARE CODING
3 Units 3 hours lecture
Prerequisite: HSC 277
Addresses the utilization of CPT-4 and HCPCS codes for hospital outpatient, physician, and other ambulatory services. Analysis of medical documentation and application of guidelines for coders and health information professionals. Letter grade only. NR

HI T 219
DIRECTED PRACTICE
4 Units 3 hours lecture 3 hours lab
Prerequisite: HIT 215 Limitation: (1) Physical examination and health clearance required (2)
HIT 220
ICD PROCEDURE CODING
2 Units 2 hours lecture
Prerequisite: HSC 277
Designed to provide training in the process of building ICD procedure codes. Discusses the Index and Tables of the ICD procedure manual for assigning procedure codes. Prepares students to review the documentation in health records, support and identifies the procedure, determine the objective of the procedure, review the definition of the root operations that match the objective of the procedure, and select the appropriate value for body part, approach, devise, and qualifier from the procedural code table. Students will use encoders and groupers to assign ICD procedure codes. Letter grade only. NR

HIT 221
ICD DIAGNOSTIC CODING
3 Units 2 hours lecture 3 hours lab
Prerequisite: HSC 277
Provides overview of the organization and format of the International Classification of Diseases, Clinical Modification (ICD), and the role of diagnostic coding in the Prospective Payment System. Provides instruction in diagnostic coding of health records by applying ICD guidelines. Students will use specialized software for the completion of the Health Information Management (HIM) processes with emphasis on encoders and groupers for diagnostic coding. Letter grade only. NR

HSC 151
INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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 special populations. Also offered as KNEA 151. Credit given in either area, not both. NR

HSC 152
ADAPTED KINESIOLOGY
ASSISTING
1 Unit 6 hours lab
Transfers: CSU
Recommended Preparation: KNEA 151/HSC 151
Designed to provide practical experience and fundamental application of applied exercise for disabled students active in adapted physical education program. Students have the opportunity to work with individuals with a variety of disabilities and medical conditions. Also offered as KNEA 152. Credit given in either area, not both. NR

HSC 201
MEDICAL TERMINOLOGY
3 Units 3 hours lecture
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. NR

HSC 217
CARDIAC DYSRHYTHMIAS
2 Units 2 hours lecture
Emphasizes cardiac function, normal and abnormal heart rhythms, causes of dysrhythmias, and interpretation of monitoring equipment printouts. NR

HSC 222
BASIC LIFE SUPPORT/ CPR FOR HEALTHCARE PROVIDERS RENEWAL
0.25 Unit 0.25 hour lecture
Limitation: Current American Heart Association Healthcare Provider Basic Life Support course completion card
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. NR

HSC 223
BASIC LIFE SUPPORT/ CPR FOR HEALTHCARE PROVIDERS
0.75 Unit 0.75 hour lecture
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 as they relate to high quality CPR and management of airway obstruction. Recognition and treatment of cardiopulmonary arrest and airway obstruction will be emphasized. Satisfactory completion of the course will provide an American Heart Association Healthcare Provider Basic Life Support course completion card. NR
dynamics and communication, systems of care and immediate post-cardiac-arrest care. Also covers airway management and related pharmacology. Skills are taught in large and small group sessions and testing stations where case-based scenarios are presented.  

HSC 227  
PEDIATRIC ADVANCED LIFE SUPPORT  
2 Units 2 hours lecture  
Limitation: Current AHA BLS  
Healthcare Provider course completion card  
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.  

HSC 228  
CALCULATIONS FOR ADMINISTRATION  
1 Unit 1 hour lecture  
Basic concepts for problem-solving in administering drugs and solutions. Stresses equivalency and unit conversions. Uses dimensional analysis system for problem solving.  

HSC 233  
LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION  
3 Units 3 hours lecture  
Covers the legal and ethical issues pertaining to health care, health information, and the health record. Topics include: privacy, confidentiality, patient rights, security, release of information, informed consents, documentation requirements, compliance, fraud and abuse, medical malpractice, labor laws, HIPAA, ARRA, HITECH, and E-health. Letter grade only (formerly MA 222).  

HSC 244  
DIASEASE PROCESSES FOR THE HEALTH SCIENCES  
3 Units 3 hours lecture  
Prerequisite: HSC 201, HSC 277  
A conceptual approach to the study of disease processes including common assessment strategies and treatments with an emphasis on the body's response to the disease process. Letter grade only.  

HSC 277  
HUMAN BODY FUNDAMENTALS  
3 Units 3 hours lecture  
Recommended Preparation: HSC 201  
Introduction to the structure and function of the human body. Includes structural components, spatial relationships, and body system interactions. Satisfies requirements for Allied Health Sciences such as Health Information Technology, EMT, and Medical Assisting, but will not fulfill requirements for nursing, physician assistant, occupational therapy, physical therapy, or pre-pharmacy majors.  

HSC 291  
MANAGEMENT OF AGGRESSIVE BEHAVIOR IN HEALTHCARE SETTINGS  
0.5 Unit 0.5 hour lecture  

Hebrew  
HEBR 1  
ELEMENTARY HEBREW  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: HEBR 1 or two years of high school Hebrew  
Corequisite: HEBR 902  
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 2  
ELEMENTARY HEBREW  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: HEBR 1 or two years of high school Hebrew  
Corequisite: HEBR 902  
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  
INTERMEDIATE HEBREW  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: HEBR 2 or three years of high school Hebrew  
Corequisite: HEBR 903  
Intermediate level course focuses on fluency on reading, writing, speaking, and listening. Continues the study of Hebrew culture.  

HEBR 901  
HEBREW LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: HEBR 1  
Requires concurrent enrollment in Hebrew 1. Enhances and provides practice in skills learned in Hebrew 1 course.  

HEBR 902  
HEBREW LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: HEBR 2  
Requires concurrent enrollment in Hebrew 2. Enhances and provides practice in skills learned in Hebrew 2 course.  

HEBR 903  
HEBREW LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: HEBR 3  
Requires concurrent enrollment in Hebrew 3. Enhances and provides practice in skills learned in Hebrew 3 course.
**HIST 4**
**WORLD HISTORY TO 1500**
*3 Units 3 hours lecture*
Transfers: CSU, UC
A survey of major themes and events in world history from the earliest civilizations to 1500. 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**
**WORLD HISTORY SINCE 1500**
*3 Units 3 hours lecture*
Transfers: CSU, UC
Survey of major themes and events in world history from 1500 to the present. Emphasis will be placed on European expansionism, the Atlantic slave trade and slavery in the Americas, late 18th and early 19th century political revolutions, the Industrial Revolution, imperialism and colonialism, 20th Century nationalist movements and revolutions, and 21st century challenges.  

**HIST 7**
**SOCIAL AND ECONOMIC HISTORY OF THE U.S. TO 1876**
*3 Units 3 hours lecture*
Transfers: CSU, UC
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**
**SOCIAL AND ECONOMIC HISTORY OF THE U.S., 1877 TO THE PRESENT**
*3 Units 3 hours lecture*
Transfers: CSU, UC
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 10**
**PERSPECTIVES OF PEACE STUDIES**
*3 Units 3 hours lecture*
Transfers: CSU, UC
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 11**
**REVOLUTIONS AND REVOLTS**
*3 Units 3 hours lecture*
Transfers: CSU, UC
Examine from a comparative perspective the origins, phases and results of selected revolutions throughout modern world history. Analyze how issues of gender, race, and class shaped these revolutions.  

**HIST 12**
**THE VIETNAM WAR**
*3 Units 3 hours lecture*
Transfers: CSU, UC
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 15**
**UNITED STATES SINCE 1945**
*3 Units 3 hours lecture*
Transfers: CSU, UC
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, the development of the Civil Rights Movement, and American foreign policy through the Persian Gulf War.  

**HIST 19**
**ETHNIC CULTURES OF THE UNITED STATES**
*3 Units 3 hours lecture*
Transfers: CSU, UC
An overview of major theories and issues concerning the historical and contemporary experience of selected racial and ethnic groups in the United States. Topics include the origins and
development of racial ideologies; the nature, causes, and consequences of racism, stereotypes, prejudice, and discrimination; and affirmative action and immigration. Also listed as SOC 20. Credit given in either area, not both.  NR

HI ST 21
WOMEN IN UNITED STATES
HI STORY - A MULTI CULTURAL PERSPECTIVE
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

HI ST 22
SURVEY OF UNITED STATES
HI STORY
3 Units 3 hours lecture
Transfers: CSU, UC
Survey of cultural, economic, political, and social aspects of the history of the United States from the colonial period to the present.  NR

HI ST 27
LATIN AMERICA - PRE-EUROPEAN TO INDEPENDENT NATIONHOOD
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

HI ST 28
LATIN AMERICA - 1800 TO THE PRESENT
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

HI ST 29
FILM AND HI STORY IN LATIN AMERICA
3 Units 3 hours lecture
Transfers: CSU, UC
Students evaluate films on Latin America in the context of historical research on similar episodes or issues. Films will focus on the social and psychological consequences of colonialism, forced labor systems, religious beliefs, and "Modernization".  NR

HI ST 30
HI STORY OF MEXICO
3 Units 3 hours lecture
Transfers: CSU, UC
An exploration of the major historical processes and events in Mexican history from the pre-colonial era to the present. Emphasis will be placed on the economic, political, social, and cultural currents that have shaped the lives of the people of Mexico.  NR

HI ST 32
CALIFORNIA HISTORY
3 Units 3 hours lecture
Transfers: CSU, UC
Survey of California history from the Pre-European era to the present, focusing on the economic, political and social factors that influenced the historical development of the state. Topics include early indigenous societies, the founding of the missions, the Mexican-American war, the Gold Rush, the Great Depression and World War II, and the Chicano Rights Movement.  NR

HI ST 33
CHICANO - LATINO AMERICAN HISTORY
3 Units 3 hours lecture
Transfers: CSU, UC
Analyzes the principal developments in Chicano/ Latino American history from the 16th century to the present. Focus is on the manner in which Mexican and Latino cultural patterns have been retained or redefined by life in the United States, the impact of the Texas Revolution and the U.S.-Mexican War, the role of urbanization and immigration, regional variation within the Chicano/ Latino communities, and Chicanos/ Latino contributions to the development of American society.  NR

HI ST 40
HI STORY OF ENGLAND TO 1688
3 Units 3 hours lecture
Transfers: CSU, UC
A survey of English history from the Roman conquest to the Glorious Revolution of 1688. Emphasis is placed on the Tudor and Stuart monarchies, especially the reigns of Henry VIII and Elizabeth I.  NR

HI ST 41
HI STORY OF ENGLAND SINCE 1688
3 Units 3 hours lecture
Transfers: CSU, UC
A survey of English history from the Glorious Revolution to the present. Includes an overview of economic, political, social, cultural, and scientific developments from 1688 to the present.  NR

HI ST 61
HI STORY AND POLITICS OF RUSSIA - SOVIET PERIOD TO THE PRESENT
3 Units 3 hours lecture
Transfers: CSU, UC
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 post-Soviet Russia.  NR

HI ST 62
EUROPEAN HISTORY TO 1650
HIST 63
EUROPEAN HISTORY SINCE 1650
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

HIST 70
HISTORY OF ASIA TO 1800
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

HIST 71
HISTORY OF ASIA SINCE 1800
3 Units 3 hours lecture
Transfers: CSU, UC
A continuation of History of Asia to 1800, with an emphasis on issues of modernization, adaptation, and cultural change since 1800.  NR

HIST 72
HISTORY OF CHINA
3 Units 3 hours lecture
Transfers: CSU, UC
A survey of Chinese history from the foundations of Chinese culture to the present, focusing on the rise of rice-based agriculture, religion, philosophy, the dynastic system, contact with the West, industrialization, the establishment of the Communist state, and the transition to a capitalist economy.  NR

HIST 73
HISTORY OF THE MIDDLE EAST TO 1800
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

HIST 74
HISTORY OF THE MODERN MIDDLE EAST
3 Units 3 hours lecture
Transfers: CSU, UC
A survey of the history of the Middle East from 1800 to the present, with 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, focusing on the importance of these institutions to contemporary global politics.  NR

HIST 75
AFRICAN AMERICAN HISTORY
3 Units 3 hours lecture
Transfers: CSU, UC
A survey of the history of peoples of African descent in the United States from colonial times to the present. Emphasis will be placed on struggles over the construction of race and identity, slavery and emancipation, the meanings of freedom and democracy, the Civil Rights and Black Power movements’ philosophies and strategies for achieving full citizenship, and the persistence of inequality in the contemporary period.  NR

Horticulture

HORT 7
INTRODUCTION TO LANDSCAPE DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
The fundamentals of landscape design as applied to residential landscape projects. Focus is directed at principles of sustainable design, and appropriate use of hardscape and plant materials. Field trips may be required to fulfill the objectives of this course.  NR

HORT 10
PLANT MATERIALS-HERBACEOUS PLANTS
3 Units 3 hours lecture
Transfers: CSU, UC
An introductory course in landscape plants and identification. Includes plants used as ground covers, 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.  NR

HORT 11
PLANT MATERIALS-TREES AND SHRUBS
3 Units 3 hours lecture
Transfers: CSU, UC
Trees and shrubs that are regionally appropriate are identified and studied. Growth characteristics and cultural requirements are presented.  NR
HORT 20
INTRODUCTION TO HORTI CULTURAL SCIENCE
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
An introductory course in ornamental horticulture, with scientific emphasis and assessment through lab tasks, including plant structure, growth and development, pest management, soils, fertilization, propagation, pruning, diseases, planting methods, greenhouse management, and landscape design principles will be studied. Includes extensive hands-on lab tasks. Field trips/observations may be required to fulfill the objectives of this course. NR

HORT 106
LANDSCAPE CAD - AUTOCAD FUNDAMENTALS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Introduction to the use of computer-aided drawing and drafting (CAD) applications in landscape design; covers applications in computer mapping and graphics, planting design, and landscape development according to industry standards. NR

HORT 109
INTRODUCTION TO PLANTING DESIGN
3 Units 3 hours lecture
Transfers: CSU
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. NR

HORT 112
PLANT PROPAGATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

HORT 113
SOILS AND FERTILIZERS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Soil is a living ecosystem critical to the establishment of healthy plants. Soil 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. NR

HORT 115
HISTORY OF LANDSCAPE DESIGN - ANCIENT THROUGH 19TH CENTURY
3 Units 3 hours lecture
Transfers: CSU
A study of landscape design from its beginnings to the 19th Century, emphasizing Italian, French Renaissance, English, Islamic, and American gardens. Field trips may be required to fulfill the objectives of this course. NR

HORT 116
IRRIGATION DESIGN FUNDAMENTALS
3 Units 3 hours lecture
Transfers: CSU
An irrigation-systems course covering landscape system design, installation, maintenance and repair. Emphasizes water conservation principles and practices. NR

HORT 120
INTEGRATED PEST MANAGEMENT
4 Units 3.5 hours lecture 1.5 hours lab
Transfers: CSU
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. NR

HORT 130
HARDSCAPE AND CONSTRUCTION MATERIALS FUNDAMENTALS
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Materials used in the development of ornamental hardscapes in landscape design include soils, stone, concrete, wood, brick, steel, and plastics. Design considerations in the use of these materials and the laws and regulations that apply are also covered. NR

HORT 138
THE SUSTAINABLE LANDSCAPE
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Fundamentals of sustainable landscape design, including water conservation, reduced use of chemicals, sustainable landscape maintenance practices, informed pruning and plant care, propagation, pest control, and fertilization. NR

HORT 139
CONTEMPORARY LANDSCAPE DESIGN TRENDS
3 Units 3 hours lecture
Transfers: CSU
Students explore current design trends with ever-changing technologies and globalization. Develop current landscape design, through case study of successful landscape design projects in the 21st century. NR

HORT 140
LANDSCAPE MANAGEMENT AND CONSTRUCTION
3 Units 3 hours lecture
Transfers: CSU
Introduces concepts critical to landscape construction. Students learn how to build a landscape design with practical implementation. Duties of the supervisor and foreman in landscape construction are discussed throughout. NR
HORT 141
HARDSCAPE AND CONSTRUCTION DETAILS WITH CAD
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Recommended Preparation: HORT 106

Computer Aided Design and Drafting (CAD) applications for hardscape construction details in landscape design. Landscape hardscape design details are to be created with the industry leading software, taught by a landscape design professional. NR

HORT 142
INTRODUCTION TO DESIGN TECHNOLOGY
1 Unit 1 hour lecture
Transfers: CSU
Provides an overview of multiple computer applications for landscape design. Projects are explored for the most efficient design workflow. Integrates multiple computer applications for landscape design tasks. NR

HORT 143
LANDSCAPE CAD MANAGEMENT WITH DESIGN PROJECTS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: HORT 106

The orchestration of multiple Computer Aided Design and Drafting (CAD) drawing files in a landscape design project is complex. Apply advanced CAD management strategies to optimize project efficiency. NR

HORT 144
LICENSE FOR THE LANDSCAPE CONTRACTOR
1.5 Units 1.5 hours lecture
Transfers: CSU

Preparing students for the California Landscape Contractor's License Exam. Expanding the services to be offered to clients by learning landscape contracting services. NR

HORT 145
PLANTING DESIGN WITH NATIVE PLANTS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU

Addresses the importance of sustainable planting design, especially for water conservation. Create landscape designs with aesthetics, function, and minimal impact on the surrounding ecosystem. NR

HORT 146
LANDSCAPE DESIGN PORTFOLIO DEVELOPMENT
0.5 Unit 1.5 hours lab
Transfers: CSU

Identifies the different styles of portfolios and develop the most suitable format for your own work examples. Culminates with the creation of a well-designed portfolio for a competitive advantage. NR

HORT 166
ORNAMENTAL NATIVE PLANTS IDENTIFICATION
3 Units 3 hours lecture
Transfers: CSU

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. Field trips may be required. NR

HORT 201
PROFESSIONAL PRACTICES IN DESIGN PROFESSIONS
3 Units 3 hours lecture
Recommended Preparation: HORT 7, 109

Exploration of all non-design aspects in practicing design professions, such as marketing, contracts, budgeting and financing, legal issues and project management. Examines what professionals should know in a business. Provides in-person exposure to law and finance by hosting guest lecture series with industry experts. NR

HORT 216
IRRIGATION PLANS AND DETAILS WITH CAD
3 Units 2 hours lecture 3 hours lab
Prerequisite: HORT 116

Includes design and management of irrigation systems on a larger and more complex level than a simple residential setting. Large estate sized properties, athletic fields, golf courses, parks and other such commercial or public settings will be covered. Emphasis on the principles and practices of hydrostatic problems and methods of large scale irrigation design will be applied to the complex systems, as well as drip irrigation and other methods of irrigation. NR

Human Services

HS 37
INTRODUCTION TO CRIMINOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC

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. NR

HS 100
INTRODUCTION TO HUMAN SERVICES
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 300

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. Studies the broad definition of the profession of Human Services. NR
HS 110
FIELD INSTRUCTION AND SEMINAR I
3.5 Units 1.5 hours lecture 6 hours lab
Transfers: CSU
Prerequisite: HS 100 and 120 and 140 and 170 and 285, with a "C" or better.
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 emphasized. NR

HS 112
CONFLICT RESOLUTION AND MEDIATION
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 300
Examines and introduces principles of non-violent, non-litigious conflict management skills with an emphasis on theory and the practice of conflict resolution, mediation, and third-party interventions. Designed to train individuals to be effective in resolving conflicts and engage mediation techniques in a broad context, from interpersonal relationships to working with individuals, groups, and staff in the workplace to dealing with interpersonal conflicts in alcohol and drug treatment settings, mental health settings, community-based correctional settings, educational and workplace settings and other human services milieus. Skills applicable for interpersonal development. NR

HS 119
INTRODUCTION TO CRIMINAL JUSTICE SYSTEM
3 Units 3 hours lecture
Transfers: CSU
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. NR

HS 120
HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT
3 Units 3 hours lecture
Transfers: CSU
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. NR

HS 128
COMMUNITY-BASED CORRECTIONS
3 Units 3 hours lecture
Transfers: CSU
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. NR

HS 131
MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES
3 Units 3 hours lecture
Transfers: CSU
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 individuals 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. NR

HS 140
GROUP LEADERSHIP AND GROUP PROCESS
3 Units 3 hours lecture
Transfers: CSU
An introduction to group dynamics and group leadership skills 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. NR

HS 150
FIELD INSTRUCTION AND SEMINAR II
3.5 Units 1.5 hours lecture 6 hours lab
Transfers: CSU
Prerequisite: HS 110
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 theoretical human services course concepts and industry-related, evidence-based competencies. Letter grade only. NR

HS 170
ALCOHOL AND OTHER DRUGS IN OUR SOCIETY
3 Units 3 hours lecture
Transfers: CSU
An historical and sociological perspective on the use, abuse and social control of psychoactive drugs. Includes overviews of the biopsychosocial nature of addiction; the impact of addiction on families and society; contemporary treatment and prevention approaches; and the addiction counseling profession. NR

HS 171
SUBSTANCE ABUSE - INTERVENTION, TREATMENT AND RECOVERY
3 Units 3 hours lecture
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. NR

HS 176
CO-OCCURRING DISORDERS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: HS 172
An introduction to the identification of symptoms and the assessment process for the presence of co-occurring disorders (diagnoses of mental health conditions and substance use disorders). Explores the relationship of these conditions including an introduction to the Diagnostic and Statistical Manual of Mental Disorders; emphasizes the development of concurrent integrated treatment strategies, including the Recovery Model, and the development of entry-level skills required of professionals who interact with individuals with co-occurring disorders. NR

HS 177
FAMILY DYNAMICS OF ADDICTION AND ABUSE
3 Units 3 hours lecture
Transfers: CSU
A multifaceted study of substance use disorders (SUD) within the family and social systems including generational abusive acts of violence within the family system. Examines various theoretical models of “addiction” and the family systems theory in the context of understanding familial and generational patterns of SUD and the cycles of violence. Assessment, intervention, and treatment strategies are explored in the context of family systems. NR

HS 172
PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS
3 Units 3 hours lecture
Transfers: CSU
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, synergistic effects, risk factors and integrates multidisciplinary treatment considerations. NR

HS 174
CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL
3 Units 3 hours lecture
Transfers: CSU
Introduces basic case administration and crisis intervention skills. Includes crisis intervention, treatment planning, and securing resources for client referral, record documentation, screening, data collection, and aftercare. Emphasizes care of clients with substance use disorders and other mental health conditions. NR

HS 175
SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION
3 Units 3 hours lecture
Transfers: CSU

HS 181
INTRODUCTION TO EATING DISORDERS
3 Units 3 hours lecture
Transfers: CSU
Introduces students to the history, symptomatology, treatment and resources for anorexia nervosa, bulimia nervosa, binge eating disorder, and other eating disorders. Includes gender, sexual identity and abuse, obesity, cultural differences, societal attitudes, and the addiction cycle. The biological, psychoanalytic, cognitive-behavioral, feminist, family systems, and other theoretical perspectives will be examined. NR

HS 182
SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: HS 120, PSYC 7
Explores current treatment trends in substance use disorders 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. NR

HS 184
MEDICAL ASPECTS OF EATING DISORDERS
3 Units 3 hours lecture
Transfers: CSU
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. NR

HS 185
THE BACKGROUND AND TREATMENT OF EATING DISORDERS
3 Units 3 hours lecture
Transfers: CSU
HS 181

Addresses the assessment and treatment of eating disorders in various treatment settings (inpatient, day treatment, outpatient), and the use of community support systems. The student will develop a philosophy regarding etiology and treatment for eating disorder clients. The end goal is for the student to understand the complexity and variety of eating disorder treatment approaches.  

NR

HS 187

JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION

3 Units 3 hours lecture

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.  

NR

HS 200

BENEFITS AND ENTITLEMENT

3 Units 3 hours lecture

Comprehensive approach to obtaining and maintaining federal, state and regional public income and healthcare coverage for the disabled, elderly and low income individuals and families. Benefits include California State Disability Insurance, Social Security's Supplemental Income (SSI) and Social Security Disability Insurance (SSDI), Medicare and Medi-Cal. This course covers work incentives and employment supportive services. Letter grade only.  

NR

HS 285

ETHICAL ISSUES AND CLIENT'S RIGHTS

3 Units 3 hours lecture

An introductory course focusing on ethical and legal standards and requirements of the human services (HS) profession. Emphasizes the relationship of values in the role of the HS professional, and includes the areas of practice, training, supervision, and consultation. Examines various professional ethical standards and codes of conduct.  

NR

HUM 1

INTRODUCTION TO HUMANITIES

3 Units 3 hours lecture

Transfers: CSU, UC

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.  

NR

HUM 3

THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE

3 Units 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: Eligibility for ENG 1A

Identifies and studies characteristic 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.  

NR

HUM 10A

CULTURE, SCIENCE, AND SOCIETY I

3 Units 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A

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. This course is open to all students but required of every Honors Program student.  

NR

HUM 10B

CULTURE, SCIENCE, AND SOCIETY II

3 Units 3 hours lecture

Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
The second 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. This course is open to all students but required of every Honors Program student. NR

HUM 21
THE SEARCH FOR MEANING - IDEAS OF SELF ACROSS CULTURES
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

HUM 22
GODS, CLOCKS, AND VISIONS
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

HUM 25
PLANET EARTH - CONTEMPORARY ISSUES AND CONTROVERSIES
3 Units 3 hours lecture
Transfers: CSU, UC
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 include 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. NR

HUM 30AH
HONORS CULTURE, SCIENCE, SOCIETY D - WAR I
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on ways in which people have represented, rationalized, propagandized, memorialized, evaluated, or understood, for themselves or others, the human activity of war until the modern era through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

HUM 30BH
HONORS CULTURE, SCIENCE, SOCIETY B - POWER, RESISTANCE, EMPIRE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for English 1B
Cross-disciplinary Honors seminar designed to focus on European colonialism and indigenous resistance to empire-building through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

HUM 30CH
HONORS CULTURE, SCIENCE, SOCIETY C - NATURE & POLITICS I
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for English 1B
Cross-disciplinary Honors seminar designed to focus on the development of political and natural philosophy into political science and modern science in Ancient Greece and the Italian Renaissance, through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

HUM 31AH
HONORS CULTURE, SCIENCE, SOCIETY D - WAR II
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on ways in which people have represented, rationalized, propagandized, memorialized, evaluated, or understood, for themselves or others, the human activity of war in the 20th and 21st centuries through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course follows the current U.C. Irvine Humanities Core Course and is open to all students. NR
HUM 31BH
HONORS CULTURE, SCIENCE, SOCIETY B - TRANSFORMATION OF EMPIRE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on the transformation of European empire into the post-colonial world through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

HUM 31CH
HONORS CULTURE, SCIENCE, SOCIETY C - NATURE & POLITICS II
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on natural and social sciences and their political impacts since 1800 through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

Insurance Billing

INSR 200
ADVANCED CODING AND CERTIFICATION PREPARATION
3 Units 3 hours lecture
Recommended Preparation: MA 224A, MA 226A, and MA 228A
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 physician-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) and Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS). Letter grade only. NR

Intercollegiate Athletics

IA 1
MEN'S FOOTBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Recommended Preparation: Previously competed at the high school, community college, or 4-year college in interscholastic or intercollegiate football.
Student athletes will train and participate in Intercollegiate Football. R-E-3

IA 2
MEN'S BASKETBALL
1.5 Units 5 hours lab
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men's Basketball. The 1.5 unit/5 hours lab will be scheduled spring semester only and the 3 unit/10 hours lab will be scheduled fall semester only. R-E-3

IA 3
MEN'S BASEBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Baseball. R-E-3

IA 4
MEN'S TRACK AND FIELD
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
 Provides an opportunity for students to prepare for competitive participation in Intercollegiate Men's Track and Field. R-E-3

IA 5
MEN'S CROSS COUNTRY
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men's Cross Country. R-E-3

IA 6
MEN'S GOLF
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men's Golf. R-E-3

IA 7
MEN'S WATER POLO
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men's Water Polo. R-E-3

IA 8
MEN'S SWIMMING AND DIVING
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men's Swimming and Diving. R-E-3
IA 9
MEN’S TENNIS
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Recommended Preparation: Previously competed at high school, community college, 4-year college, or adult advanced tennis level.
Student athletes will train and prepare for Intercollegiate Men’s Tennis competition. R-E-3

IA 10
WOMEN’S VOLLEYBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Volleyball. R-E-3

IA 11
WOMEN’S SOFTBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Softball. R-E-3

IA 12
WOMEN’S BASKETBALL
1.5 Units 5 hours lab
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Basketball. The 1.5 unit/5 hours lab will be scheduled spring semester only and the 3 unit/10 hours lab will be scheduled fall semester only. R-E-3

IA 13
WOMEN’S TENNIS
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Tennis. R-E-3

IA 14
WOMEN’S SWIMMING AND DIVING
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Swimming and Diving. R-E-3

IA 16
WOMEN’S TRACK AND FIELD
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Track and Field. R-E-3

IA 17
WOMEN’S CROSS COUNTRY
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Cross Country. R-E-3

IA 18
WOMEN’S WATER POLO
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Water Polo. R-E-3

IA 19
WOMEN’S GOLF
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Golf. R-E-3

IA 20
WOMEN’S SPORTS OFF SEASON TRAINING
0.5 Unit 2.5 hours lab
1.5 Units 5 hours lab
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD).
Recommended Preparation: Previously competed at the high school, competitive club level, community college, or 4-year college in interscholastic or intercollegiate athletics.
Off season training designed for women’s intercollegiate athletics with an emphasis on aerobic and anaerobic conditioning, sports specific strength development, skills training, play strategies, and nutrition for optimal performance (formerly IA 115). R-E-3

IA 21
WOMEN’S SOCCER
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Soccer. R-E-3

IA 22
WOMEN’S SAND VOLLEYBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in
Designated to apply concepts and theories presented in the lecture course, ID 110, Fundamentals of Interior Design. Emphasis is placed on the design process in developing solutions for design projects. NR

ID 112
BEGINNING DRAFTING FOR INTERIORS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Applications of methods and theory used for architectural drawings, including basic graphics and projections for design and working drawings. NR

ID 113
INTERIOR DESIGN CAREERS
2 Units 2 hours lecture
Transfers: CSU
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. NR

ID 114
APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

ID 115
CAD FOR INTERIOR DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ID 112
Introduces the basic skills, techniques, and uses for computer-aided design and drafting. NR

ID 116
INTERIOR MATERIALS AND PRODUCTS
3 Units 3 hours lecture
Transfers: CSU
Analysis, application, and evaluation of products and materials used in interior design. Includes interior textiles, furnishings, and finish materials and products. NR

ID 121
SPACE PLANNING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

ID 122
HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I
3 Units 3 hours lecture
Transfers: CSU
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 123
INTERIOR DESIGN ILLUSTRATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ID 112
Application of the methods, techniques, and tools used for illustrating interior spaces and products. NR

ID 125
HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II
3 Units 3 hours lecture
Transfers: CSU
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. NR

**ID 126**
INTERIOR DESIGN STUDIO II
3 Units 2 hours lecture 3 hours lab

- Transfers: CSU
- 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. NR

**ID 127**
FUNDAMENTALS OF LIGHTING
3 Units 3 hours lecture

- Transfers: CSU
- 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. NR

**ID 128**
BUSINESS AND PROFESSIONAL PRACTICE FOR INTERIOR DESIGN
3 Units 3 hours lecture

- Transfers: CSU
- Recommended Preparation: ID 113

Business and professional management of an interior design practice including legal issues, project management, and business practices. NR

**ID 129**
INTERIOR DESIGN INTERNSHIP
1 Unit 1 hour lecture

- Transfers: CSU

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. NR

**ID 131**
DIGITAL VISUALIZATION FOR INTERIOR DESIGN
3 Units 2 hours lecture 3 hours lab

- Transfers: CSU
- Recommended Preparation: ID 115, 123

Introduces the methods, techniques, and tools for creating digital 3D models, rendered illustrations, and material boards by utilizing a variety of software programs and technologies toward composing effective Interior Design presentations (formerly ID 216). NR

**ID 132**
CODES AND SPECIFICATIONS FOR INTERIOR DESIGN
3 Units 3 hours lecture

- Transfers: CSU
- Recommended Preparation: ID 115, 123

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 (formerly ID 211). NR

**ID 133**
RENDERING AND RAPID VISUALIZATION FOR INTERIOR DESIGN
3 Units 2 hours lecture 3 hours lab

- Transfers: CSU
- 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. NR

**ID 134**
ADVANCED CAD FOR INTERIOR DESIGN
3 Units 2 hours lecture 3 hours lab

- Transfers: CSU
- Recommended Preparation: ID 115

Develops proficiency and skills in 2D and 3D computer-aided design and drafting for Interior Design applications (formerly ID 212). NR

**ID 210**
HOSPITALITY DESIGN
3 Units 2 hours lecture 3 hours lab

- 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. NR

**ID 214**
BATH DESIGN
3 Units 2 hours lecture 3 hours lab

- 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 bath spaces. Design solutions for baths will be developed in the studio. NR

**ID 215**
KITCHEN DESIGN
3 Units 2 hours lecture 3 hours lab

- 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 kitchen spaces. Design solutions for kitchens will be developed in the studio. NR
Italian

ITA 1
ELEMENTARY ITALIAN
5 Units 5 hours lecture
Transfers: CSU, UC
Corequisite: ITA 901
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. NR

ITA 2
ELEMENTARY ITALIAN
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: ITA 1 or two years of high school Italian
Corequisite: ITA 902
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. NR

ITA 3
INTERMEDIATE ITALIAN
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: ITA 2 or three years of high school Italian
Corequisite: ITA 903
Reviews the fundamentals with further study of the Italian language and culture. NR

ITA 4
INTERMEDIATE ITALIAN
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: ITA 3 or four years of high school Italian
Corequisite: ITA 904
Concentrates on the development of fluency in the skills needed to communicate in Italian. Further study of cultural topics. NR

ITA 10
INTERMEDIATE CONVERSATIONAL ITALIAN
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: ITA 2 or three years of high school Italian
Designed to develop fluency in Italian. The emphasis is on both formal and informal expression and conversation in the language. NR

ITA 21
INTRODUCTION TO ITALIAN CULTURE
3 Units 3 hours lecture
Transfers: CSU, UC
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 the United States and the world. No prior study of the Italian language or culture is required. NR

ITA 901
ITALIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: ITA 1
Requires concurrent enrollment in Italian 1 course. Enhances and provides practice in skills learned in Italian 1 language courses. NR

ITA 902
ITALIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: ITA 2
Requires concurrent enrollment in Italian 2. Enhances and provides practice in skills learned in Italian 2 language course. NR

ITA 903
ITALIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: ITA 3
Requires concurrent enrollment in Italian 3. Enhances and provides practice in skills in Italian 3 language course. NR

ITA 904
ITALIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: ITA 4
Requires concurrent enrollment in Italian 4. Enhances and provides practice in skills in Italian 4 language course. NR

Japanese

JA 1
ELEMENTARY JAPANESE
5 Units 5 hours lecture
Transfers: CSU, UC
Corequisite: JA 901
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. NR

JA 2
ELEMENTARY JAPANESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: JA 1 or two years high school Japanese
Corequisite: JA 902
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. NR

JA 3
INTERMEDIATE JAPANESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: JA 2 or three years high school Japanese
Corequisite: JA 903
Intermediate level course focuses on fluency in reading, writing, speaking,
Japanese-American literature, culture, basic four genres in Japanese and required. NR

Japanese language or culture is reading and discussions from the people. No prior study of the religion, and customs of the Japanese. Includes selected study of Japanese 3. Enhances and provides practice in skills learned in Japanese 4 language course. NR

**J A 4**

**INTERMEDIATE JAPANESE**

5 Units 5 hours lecture

- Transfers: CSU, UC
- Corequisite: JA 904

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. NR

**J A 21**

**INTRODUCTION TO JAPANESE CULTURE**

3 Units 3 hours lecture

- Transfers: CSU, UC
- 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. NR

**J A 901**

**JAPANESE LANGUAGE LAB**

0.25 Unit 1 hour learning center

- Corequisite: JA 1
- Prerequisite: Eligibility for ENG 1A

Requires concurrent enrollment in Japanese 1. Enhances and provides practice in skills learned in Japanese 1 language course. NR

**J A 902**

**JAPANESE LANGUAGE LAB**

0.25 Unit 1 hour learning center

- Corequisite: JA 2

Requires concurrent enrollment in Japanese 2. Enhances and provides practice in skills learned in Japanese 2 language course. NR

**J A 903**

**JAPANESE LANGUAGE LAB**

0.25 Unit 1 hour learning center

- Corequisite: JA 3

Requires concurrent enrollment in Japanese 3. Enhances and provides practice in skills learned in Japanese 3 language course. NR

J A 904

**JAPANESE LANGUAGE LAB**

0.25 Unit 1 hour learning center

- Corequisite: JA 4

Enhances and provides practice in skills learned in Japanese 4 language course. NR

**Journalism**

**J R N 1**

**MASS MEDIA AND SOCIETY**

3 Units 3 hours lecture

- Transfers: CSU, UC
- Recommended Preparation: ENG 1A or JRN 2

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 CTVR 106. Credit given in either area, not both. NR

**J R N 2**

**NEWS WRITING**

3 Units 3 hours lecture

- Transfers: CSU
- Corequisite: JA 904
- 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. NR

**J R N 105**

**FEATURE WRITING**

3 Units 3 hours lecture

- Transfers: CSU
- Corequisite: JA 904

An in-depth study of commercial magazines and company publications including purposes, formats, requirements, feature requirements, market studies, and manuscript submission policies. NR

**J R N 106**

**VIDEO JOURNALISM**

3 Units 3 hours lecture 1 hour lab

- Transfers: CSU
- Corequisite: JA 904

Covers the principles and techniques of broadcast journalism, including purposes, formats, requirements, feature requirements, market studies, and manuscript submission policies. NR

**J R N 107**

**NEWS MEDIA PRODUCTION AND INVESTIGATIVE REPORTING**

4 Units 3 hours lecture 3 hours lab

- Transfers: CSU
- Corequisite: JA 904
- Recommended Preparation: ENG 1A or JRN 2

Provides instruction and practice in developing, researching and writing investigative and in-depth articles and content for the student print, online, mobile and emerging platforms of the campus publications. Student publications are evaluated and critiqued in regularly scheduled student staff meetings. NR

**J R N 108**

**INTRO TO PODCASTING AND AUDIO STORYTELLING**

3 Units 2 hours lecture 3 hours lab

- Transfers: CSU
- Corequisite: JA 904
- Recommended Preparation: JRN 2 or CTVR 111

Introduction to all aspects of audio storytelling and podcasting. Students will produce content in the form of podcasts, live and pre-recorded talk shows, radio documentaries, newscasts, broadcast news spots, and emerging formats. Basic writing for broadcast, audio storytelling and editing will be covered. Ethical and legal aspects of broadcast communication and radio journalism are also covered. An emphasis will be placed on producing content for public radio. Work will be produced for distribution on campus news media outlets. Also listed as CTVR 108. Credit given in either area, not both. NR
JRN 109
NEWS MEDIA PRODUCTION AND DATA REPORTING
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ENG 1A or JRN 2
Provides practical instruction in news media production, content management systems, data collection for storytelling and creating visual elements through data for the student campus publications (print, online, mobile and emerging platforms). This course produces content for student media outlets. NR

JRN 110
INTERACTIVE MEDIA DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: JRN 2
Introduces students to basic concepts of interactive design for digital media with a journalistic emphasis. Students may design interactive multimedia packages, graphics, animation, mobile applications, digital e-book reader interactives, widgets, tablet publications and more. An introduction to basic design principles, concepts of engagement and interactivity, and presentation of journalistic content on a variety of platforms will be discussed in this hands-on course. An emphasis will be placed on accuracy, journalistic content, as well as clear and dynamic presentation. NR

JRN 111
NEWS MEDIA PRODUCTION AND EDITING
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ENG 1A or JRN 2
Provides practical instruction in interviewing, computer assisted reporting, copy editing, headline writing, photo editing, SEOs, AP Style, etc. are explored. NR

JRN 112
NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL MEDIA
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ENG 1A or JRN 2
Provides practical instruction on news media production, blogging and social media. Students will produce blogs and utilize popular and emerging social media tools as part of the student online campus publications. NR

JRN 113
MAGAZINE PRODUCTION FOR DIGITAL PLATFORMS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ENG 1A, JRN 105, or ENG 3
Focuses on magazine production from content production to publication and distribution on digital platforms, such as Web, mobile, tablet and emerging platforms. Focuses on content production for digital magazines with an emphasis on interactive elements, user engagement, social media, multimedia, storytelling in various forms, written stories. NR

JRN 125
MAGAZINE JOURNALISM
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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. NR

Kinesiology - Adapted

KNEA 1
ADAPTED STRENGTH TRAINING
0.5 Unit 0.5 hour lecture 0.5 hour lab
Transfers: CSU, UC
Fitness class stressing aerobic conditioning and cardiovascular fitness. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability. NR

KNEA 2
ADAPTED WATER EXERCISE AND SWIMMING
0.5 Unit 0.5 hour lecture 0.5 hour lab
1 Unit 0.5 hour lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Consists of aquatic exercise and modified swimming to improve strength, cardiovascular endurance, flexibility, balance, and/or gait. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnoses, or permanent disabilities. NR

KNEA 3
ADAPTED CARDIOVASCULAR CONDITIONING
0.5 Unit 0.5 hour lecture 0.5 hour lab
1 Unit 0.5 hour lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Fitness class stressing aerobic conditioning and cardiovascular fitness. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability. NR

KNEA 4
ADAPTED STRETCHING AND CORE TRAINING
0.5 Unit 0.5 hour lecture 0.5 hour lab
1 Unit 0.5 hour lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Fitness class stressing flexibility and core strengthening exercises. Designed for students that have participated in physical therapy, have chronic pain or permanent disability. NR

KNEA 6
ADAPTED SPORTS
0.5 Unit 0.5 hour lecture 0.5 hour lab
1 Unit 0.5 hour lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Introduction to sports including basketball, soccer, floor hockey, softball, bocce ball, and tennis. Designed for individuals who need assistance and equipment adaptations in activities and sports. NR

KNEA 8
ADAPTED OUTDOOR EDUCATION AND RECREATION
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
An introduction to outdoor education and recreation designed for students with special needs and varying abilities. This class focuses on safety, outdoor fitness conditioning, and the basic skills needed to interact with the outdoor environment while participating in a variety of outdoor activities, such as stand up paddling, kayaking, sailing, surfing, body boarding, snorkeling, hiking, rock climbing, archery, paintball, and fishing. NR

KNEA 107
SURVEY AND ASSESSMENT OF FITNESS
1 Unit 1 hour lecture
Transfers: CSU
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 a personal program for lifetime fitness will be presented. Different testing and assessment techniques will be used in this course. NR

KNEA 151
INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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 special populations. Also offered as HSC 151. Credit given in either area, not both (formerly SE 101). NR

KNEA 152
ADAPTED KINESIOLOGY
1 Unit 6 hours lab
Transfers: CSU
Recommended Preparation: KNEA 151/HSC 151
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 individuals with a variety of disabilities and medical conditions. Also offered as HSC 152. Credit given in either area, not both (formerly SE 102). NR

KNEA 300
ADAPTED STRENGTH TRAINING
0 Unit 1 hour lecture 2 hours lab
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. NR

KNEA 310
ADAPTED WATER EXERCISE AND SWIMMING
0 Unit 1 hour lecture 2 hours lab
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. NR

Kinesiology

KNES 1
CARDIOVASCULAR CONDITIONING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
A multifaceted approach to cardiovascular fitness using aerobic and anaerobic conditioning as a way of developing and maintaining health. Access to treadmills, recumbent bikes, elliptical. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 8, 16, 50, and DANC 77. NR

KNES 2
STRENGTH TRAINING
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66. NR

KNES 3
CIRCUIT WEIGHT TRAINING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Calisthenics and resistance training by rotation of exercises to optimize
aerobic and anaerobic conditioning. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 8, 16, 50, and DANC 77. NR

KNES 4
BEGINNING WEIGHT LIFTING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab

Transfers: CSU, UC
Basic skills and methods used in weight lifting. Free weights and machines will be used to develop lean muscle and decrease body fat. Individual workout program on resistance exercise equipment. Students are limited to a combined total of four enrollments in KNES 4, 5, and 6. NR

KNES 5
INTERMEDIATE WEIGHT LIFTING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab

Transfers: CSU, UC
Recommended Preparation: KNES 4
Training principles and theories in weight lifting for students interested in sports activities and competition. Emphasis on resistance machines, free weights, and additional equipment such as medicine balls and kettle bells. Students are limited to a combined total of four enrollments in KNES 4, 5, and 6. NR

KNES 6
ADVANCED WEIGHT LIFTING
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab

Transfers: CSU, UC
Recommended Preparation: KNES 5
Advanced instruction and sport specific practice in the techniques of developing muscle strength and endurance for maximizing performance. Power lifting, resistance machines, free weights, and additional equipment will be utilized. Advanced training, principles, and theories. Students are limited to a combined total of four enrollments in KNES 4, 5, and 6. NR

KNES 8
BEGINNING CARDIO KICKBOXING
1.5 Units 1 hour lecture 2 hours lab

Transfers: CSU, UC
A group cardiovascular workout utilizing sports and kickboxing movements combined with constant aerobic intervals. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 8, 16, 50, and DANC 77. NR

KNES 9
STRETCHING, FLEXIBILITY, AND CONDITIONING
1 Unit 0.5 hours lecture 1.5 hours lab

Transfers: CSU, UC
Recommended Preparation: KNES 4
Techniques and application of safe stretching, breathing, body alignment, and muscle conditioning exercises for increased toning and core training. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR

KNES 9
STRETCHING, FLEXIBILITY, AND CONDITIONING
1.5 Units 1 hour lecture 2 hours lab

Transfers: CSU, UC
Techniques and application of safe stretching, breathing, body alignment, and muscle conditioning exercises for increased muscle tone and core training. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR
KNES 10  
CROSS TRAINING  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Develops aerobic fitness by concurrently training in two or more dynamic endurance activities such as (walking, jogging, hiking, stationary biking or stepping) combined with anaerobic exercise (strength training and short exertion, high intensity movement). Multi-use aerobic activities plus anaerobic exercises to produce a cross training effect. Formerly KNES 110. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66. NR

KNES 10  
CROSS TRAINING  
1.5 Units 1 hour lecture 2 hours lab  
Transfers: CSU, UC  
Develops aerobic fitness by concurrently training in two or more dynamic endurance activities such as (walking, jogging, hiking, stationary biking or stepping) combined with anaerobic exercise (strength training and short exertion, high intensity movement). Multi-use aerobic activities plus anaerobic exercises to produce a cross training effect. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66. NR

KNES 15  
INTERMEDIATE CYCLING AND SPINNING  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 19  
Designed to increase the student’s knowledge and skills in cycling/spinning. Emphasis on intermediate level cycling techniques including standing climbs, jumps, and sprints, used to improve muscular endurance and cardiovascular fitness (formerly KNES 115). Students are limited to a combined total of four enrollments in KNES 15 and 19. NR

KNES 16  
INTERMEDIATE CARDIO KICKBOXING  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 18  
Designed to increase the student’s knowledge and skills in cardio kickboxing. Provides students with a safe and effective cardiovascular and muscular endurance workout that utilizes skills from sports, kickboxing, and self-defense, combined with constant aerobic movement. Emphasis is placed on intermediate level combinations and muscular endurance training exercises (formerly KNES 116). Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 8, 16, 50, and DANC 77. NR

KNES 17  
BEGINNING BOWLING  
1 Unit 0.5 hours lecture 1.5 hours lab  
1.5 Units 1 hour lecture 2 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 18  
Introduction of bowling rules, strategy, etiquette and skills. Basic stance, approach, release and delivery. Participation in a league bowling situation. Students are limited to a combined total of four enrollments in KNES 17 and 18. NR

KNES 18  
INTERMEDIATE BOWLING  
1.5 Units 1 hour lecture 2 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 17  
Intermediate techniques, skills, and strategy of bowling. Participate in league situations. Educational experience by supervised repetition and practice to develop skills. Students are limited to a combined total of four enrollments in KNES 17 and 18. NR

KNES 19  
BEGINNING CYCLING AND SPINNING  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Introduces the student to basic knowledge and skills in cycling/spinning. Develops an appreciation of cycling/spinning as a lifetime sport and means of developing and maintaining muscular endurance and cardiovascular fitness. Students are limited to a combined total of four enrollments in KNES 15 and 19. NR

KNES 19  
BEGINNING CYCLING AND SPINNING  
1.5 Units 1 hour lecture 2 hours lab  
Transfers: CSU, UC  
Indoor cycling/spinning class that introduces the student to basic knowledge and skills using interval training to improve muscular and cardiovascular fitness. Students are limited to a combined total of four enrollments in KNES 15 and 19. NR

KNES 20  
BEGINNING GOLF I  
1 Unit 0.5 hours lecture 1.5 hours lab  
1.5 Units 1 hour lecture 2 hours lab  
Transfers: CSU, UC  
Beginning fundamentals of golf skills including rules, etiquette, and terminology. Students are limited to a combined total of four enrollments in KNES 20, 21, 22, and 23. NR
KNES 21
BEGINNING GOLF I
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 20
Progression of beginning skills, strategy, and individual stroke analysis. Refinement of beginning game. Students are limited to a combined total of four enrollments in KNES 20, 21, 22, and 23. NR

KNES 22
INTERMEDIATE GOLF
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 21
Techniques of various strategic golf shots to increase overall success in the game. Students provide golf clubs. Students are limited to a combined total of four enrollments in KNES 20, 21, 22, and 23. NR

KNES 23
ADVANCED GOLF
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 22
Fundamental errors in golf analyzed and match play arranged by ability or handicaps. Students provide golf clubs and furnish their own transportation to the golf course. Students are limited to a combined total of four enrollments in KNES 20, 21, 22, and 23. NR

KNES 24
BEGINNING TENNIS I
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Learn basic strokes for playing singles and doubles games. Students provide racquet and can of tennis balls. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 25
BEGINNING TENNIS II
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 24
Instruction refining tennis skills and game strategy. Students provide racquet and can of tennis balls. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 26
INTERMEDIATE TENNIS
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 25
Tennis stroke analysis, singles and doubles play, strategy and match play. Students provide racquet and can of tennis balls. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 27
ADVANCED TENNIS
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 26
Advanced tennis techniques, playing strategy, and match play, singles, doubles and mixed doubles. Students must provide own racquet and can of tennis balls. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 28
BEGINNING YOGA
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Gentle yoga exercises focus on correct postural alignment, balance, joint flexibility, and muscle toning. Includes breathing techniques for stress reduction, calmness, and clarity. Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28. NR

KNES 29
INTRODUCTION TO TAI CHI CH’UAN
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in KNES 29, 37, and 98. NR
KNES 31
MUSCLE TONING FOR WOMEN
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Introduction to the principles of muscle toning and resistance training. Development of individual programs for muscle endurance and strength using free weights and machines. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66. NR

KNES 31
MUSCLE TONING FOR WOMEN
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Introduction to the principles of muscle toning and resistance training. Development of individual programs for muscle endurance and strength using free weights and machines. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66. NR

KNES 33
BEGINNING SURFING I
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
History of surfing, ocean safety, surfing etiquette, wave selection, proper paddling, and appropriate take-off procedures. Students will be required to provide their own equipment and display an understanding of appropriate surfing equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR

KNES 34
BEGINNING SURFING II - SHORTBOARDING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Secondary level surf class for experienced surfers with the knowledge and skills to become confident and competent in their surfing ability on a shorter surfboard in faster, steeper, waves. Basic ocean safety and first aid, surfing etiquette, negotiating big sets, paddling and dropping in to faster, steeper waves, and learning to maneuver a shortboard. Students must provide their own equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR

KNES 35
INTERMEDIATE SURFING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Recommended Preparation: KNES 34
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. Short and longboard maneuvers as: Duck dive, cutback, "off the lip," roundhouse, sideslip, crossover, and walk to nose. Students provide own equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR

KNES 36
ADVANCED SURFING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Recommended Preparation: KNES 35
For the advanced surfer interested in extreme maneuvers and competing at the collegiate level. Students provide own equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR

KNES 37
INTERMEDIATE TAI CHI CH’UAN
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 29
Progressive course from the fundamental movements of the ancient Taoist art of Tai Chi.
Intermediate forms, techniques, and principles to increase strength and balance through slow, fluid movements. Formerly KNES 137. Students are limited to a combined total of four enrollments in KNES 29, 37, and 98. NR

KNES 38
INTERMEDIATE MAT PILATES
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 65/DANC 65
Intermediate progression of mat exercises emphasizing the principles of Joseph Pilates. Improvement of back strength, flexibility, and postural alignment by integration of physical and mental aspects of movement. Proper breathing techniques are emphasized. Also listed as DANC 38, credit given in either area, not both (formerly KNES 138). Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR

KNES 38
INTERMEDIATE MAT PILATES
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES/DANC 65
Intermediate progression of mat exercises emphasizing the principles of Joseph Pilates. Improvement of back strength, flexibility, and postural alignment by integration of physical and mental aspects of movement. Proper breathing techniques are emphasized. Also listed as DANC 38, credit given in either area, not both. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR
KNES 39
INTERMEDIATE YOGA
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 28
Intermediate level course exploring and integrating the principles and practice of yoga. Emphasis is on postural work and vinyasa (flow) for improved body alignment, flexibility, balance, physical endurance, and muscle tone. Breathing techniques are integrated to enhance the mind-body connection, increase oxygen intake, and reduce stress. Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28. NR

KNES 40
ADVANCED YOGA
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 28
Blending the principles and practices of advanced yoga techniques for total body fitness. Practice will include yoga for flexibility and body balance, focusing on strength and cardiovascular training, and Pilates techniques to increase concentration and core stabilization. Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28. NR

KNES 41
SWIMMING FOR NONSWIMMERS
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
A beginning course in the instruction and practice of the fundamental elements of swimming, diving, and safety skills. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

KNES 42
INTERMEDIATE SWIMMING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Instruction and practice of the fundamental elements of swimming and diving and safety skills. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

KNES 43
ADVANCED SWIMMING AND DIVING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 42
Techniques for advanced swimming and diving skills. Safety in regard to lifesaving and elementary forms of rescue. Field trips may be required. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

KNES 44
AQUATIC CONDITIONING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: Basic swimming ability
Swimming and water exercises to develop and maintain physical fitness. Emphasis will be placed on endurance training for improved cardiovascular fitness. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR
KINESIOLOGY

INTRODUCTION TO KINESIOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
An introductory course to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. NR

FUNDAMENTALS OF HUMAN MOVEMENT
3 Units 3 hours lecture
Transfers: CSU, UC
Basic scientific principles of human movement related to various forms of sport and exercise. Fundamentals of anatomy, exercise physiology, biomechanics, and motor control. Analyses of movements involved in various activities will be performed. NR

PRINCIPLES AND FUNDAMENTALS OF COACHING
3 Units 3 hours lecture
Transfers: CSU, UC
A comprehensive introduction to the coaching profession. Emphasis is placed on coaching at the high school, elite club level, and includes youth, recreational, and intercollegiate sport programs. The primary goal is to develop and enhance student's knowledge and understanding of concepts and techniques of coaching. NR

PRACTICUM IN ATHLETIC TRAINING - FALL SPORTS
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Exposure to sports injuries unique to Fall intercollegiate athletics. Emphasis on recognition, 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. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

LIFEGUARD TRAINING
NR
Lifeguard Training Certificate. NR
American National Red Cross

ADVANCED WATER POLO (COED)
KNES 45
1.5 Units 1 hour lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: IA 7 or 8 or 14 or 18
Advanced course in water polo for those 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. NR

AQUA AEROBICS
KNES 49
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: IA 7 or 8 or 14 or 18
Instruction in lifeguard training and lifesaving techniques. Cardiopulmonary resuscitation, and basic first aid training that will facilitate successful completion of the American National Red Cross Lifeguard Training Certificate. NR

AQUA AEROBICS
KNES 49
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: IA 7 or 8 or 14 or 18
Instruction in lifeguard training and lifesaving techniques. Cardiopulmonary resuscitation, and basic first aid training that will facilitate successful completion of the American National Red Cross Lifeguard Training Certificate. NR
total of four enrollments in KNES 56 and 59.  NR

KNES 57
PEP SQUAD I
1.5 Units 4.5 hours lab
Transfers: CSU, UC
Limitation: Competitive audition required
Recommended Preparation:
Previously competed on high school, community college, or 4-year college cheer or song team
Exposure to sports injuries unique to contemporary teaching (formerly KNES 159). Students are limited to a combined total of four enrollments in KNES 56 and 59.  NR

KNES 58
PEP SQUAD II
1.5 Units 4.5 hours lab
Transfers: CSU, UC
Limitation: Competitive audition required
Recommended Preparation: KNES 57
Exposure to sports injuries unique to contemporary teaching (formerly KNES 159). Students are limited to a combined total of four enrollments in KNES 56 and 59.  NR

KNES 59
PRACTICUM IN ATHLETIC TRAINING -SPRING SPORTS
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 56
Exposure to sports injuries unique to Spring intercollegiate athletics. Emphasis on recognition, rehabilitation, and taping techniques to enable athletes to return to competition. Students will receive hands on experience and be able to apply various techniques in the care and prevention of athletic injuries

KNES 60
ANATOMY AND FUNDAMENTALS OF YOGA
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: KNES 28
An introduction to the core principles of Hatha Yoga, study of anatomical structures of body movements, and teaching techniques. Includes experiential application of the asanas (formerly KNES 160).  NR

KNES 61
TEACHING OF YOGA
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: KNES 28
Teaching techniques of yoga. Emphasis on variations, adjustments and modifications of basic yoga poses for teaching different levels in various settings. Focus on developing skills for instructing yoga, including verbal cueing, anatomically supportive sequences, and stress management techniques for healthier lifestyles (formerly KNES 161).  NR

KNES 62
PHILOSOPHY OF YOGA
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to the philosophy of yoga through history, development of the asanas, and traditional texts. Major lineages of yoga and related practices will be covered, with a focus on the integration of these ideas in contemporary teaching (formerly KNES 162).  NR

KNES 63
BEGINNING ROCK CLIMBING
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
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.  NR

KNES 65
INTRODUCTION TO MAT PILATES
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
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 Proper breathing techniques are emphasized. Also listed as DANC 65, credit given in either area, not both. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65.  NR

KNES 66
CORE TRAINING
1 Unit 0.5 hours lecture 1.5 hours lab
Training for core strength, coordination, balance, quickness, and agility. Resistance tubes, fitness balls, and medicine balls used to maximize training for muscle enhancement to maximize performance. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66.  NR
KNES 68  
**WALKING FOR FITNESS**  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation:  
Students should be able to complete a 1.0 mile walk within 20 minutes.  
Basic techniques of walking and a progressive training program for students of all ages and skill levels.  
Includes off-campus walks on trails.  
Students are limited to a combined total of four enrollments in KNES 68, 69, and 86.  
NR  

KNES 69  
**TRAIL HIKING**  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation:  
Students should be able to complete a 1.0 mile walk within 20 minutes.  
Exploration of scenic trails including the coast, canyons, parks, hills, and open space areas. Trails are off-campus and student’s must provide their own transportation.  
Students are limited to a combined total of four enrollments in KNES 68, 69, and 86.  
NR  

KNES 70  
**BASKETBALL**  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Instruction and practice in basic basketball fundamentals.  
Development of various methods of individual and team play.  
Students are limited to a combined total of four enrollments in KNES 70 and 71.  
NR  

KNES 71  
**ADVANCED BASKETBALL**  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 70  
Advanced basketball instruction for those 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.  
Students are limited to a combined total of four enrollments in KNES 70 and 71.  
NR  

KNES 72  
**BEGINNING SOCCER**  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 72  
Basic fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, and defensive tactics, and knowledge of rules.  
Students are limited to a combined total of four enrollments in KNES 72 and 73.  
NR  

KNES 73  
**ADVANCED SOCCER**  
1.5 Units 1 hour lecture 2 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 72  
Advanced fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, defensive tactics, and knowledge of rules.  
Students are limited to a combined total of four enrollments in KNES 72 and 73.  
NR  

KNES 74  
**SLOW PITCH SOFTBALL**  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Games of slow pitch softball with fundamentals of offense, defense, basic drills, and team strategy.  
Students are limited to a combined total of four enrollments in KNES 74 and 83.  
NR  

KNES 76  
**BEGINNING VOLLEYBALL**  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU, UC  
Introduction to the basic skills of volleyball. Rules, strategy, skill
enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 76
BEGINNING VOLLEYBALL
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
The introduction of basic skills of volleyball. Rules, strategy, skill practice, and class competition are included. Course is orientated to the beginning volleyball student. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 77
INTERMEDIATE VOLLEYBALL
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 76
Intermediate skills and strategies of volleyball. Rules and skill practice in passing, setting, hitting, serving, blocking are included. Intermediate offense and defense systems of play. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 77
INTERMEDIATE VOLLEYBALL
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 76
Intermediate skills and strategies of volleyball. Rules, and skill practice in passing, setting, hitting, serving, blocking are included. Intermediate volleyball offense and defense systems of play. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 78
ADVANCED VOLLEYBALL
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 77
Advanced skill development for playing competitive volleyball. Skills covered include advanced techniques, fast offense, court positioning, rolls, dives, and team strategy, both offensive and defensive. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 81
BEGINNING BEACH VOLLEYBALL
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Introduction to beach volleyball. Rules, strategy, skill practice, and class competition are included. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 82
RECREATIONAL BASEBALL
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recreational baseball played in a competitive game format. Baseball rules, conditioning, offensive and defensive playing skills and teamwork. Students are limited to a combined total of four enrollments in KNES 79 and 82. NR

KNES 84
INTERMEDIATE BEACH VOLLEYBALL
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 81
Intermediate level course with progressive skill development in beach volleyball. Competitive games played using offensive and defensive strategies, tactics, and techniques (formerly KNES 184). Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 85
ADVANCED BEACH VOLLEYBALL
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 81
Advanced beach volleyball techniques and strategies with class competition. A progressive skill building class with
emphasize on offensive and defensive strategies (formerly KNES 185). Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

**KNES 86 BACKPACKING**
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Principles and methods for safe and responsible skills in backpacking. Includes how to prepare a pack efficiently, trail etiquette, and risks associated with outdoor terrain and weather. Day backpacking at a local county park, an overnight backpacking trip, and an extended weekend experience in one of the National Parks or wilderness areas (formerly KNES 186). Students are limited to a combined total of four enrollments in KNES 68, 69, and 86. NR

**KNES 90 BEGINNING SELF-DEFENSE**
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Techniques of basic self-defense recommended for both men and women. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

**KNES 90 BEGINNING SELF-DEFENSE**
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Techniques of basic self-defense recommended for both men and women. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

**KNES 91 INTERMEDIATE SELF DEFENSE**
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 90
Provides intermediate instruction on how to effectively protect oneself by applying various self defense principles while emphasizing physical conditioning and personal confidence (formerly KNES 191). Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

**KNES 93 BEGINNING KARATE**
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

**KNES 94 BEGINNING AIKIDO**
1 Unit 0.5 hours lecture 1.5 hours lab
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Aikido is a modern Japanese martial art based upon nonresistance rather than strength. It is a non-aggressive, noncompetitive art based upon a philosophy that stresses harmony with nature and control of body and mind. Students are limited to a combined total of four enrollments in KNES 94, 95, and 96. NR

**KNES 95 INTERMEDIATE KARATE**
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 94
Advanced Karate (formerly KNES 197). Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

**KNES 96 INTERMEDIATE AIKIDO**
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 94
Advanced Aikido. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

**KNES 97 I NTRODUCTION TO QI GONG**
1 Unit 0.5 hours lecture 1.5 hours lab
Transfers: CSU, UC
Qigong is a Chinese exercise form emphasizing posture, movement, breathing patterns, and awareness to liberate and direct life energy (Chi) through meridian pathways in order to promote maintenance and improvement of personal health (formerly KNES 198). Students are
limited to a combined total of four enrollments in KNES 29, 37, and 98.  
NR

**KNES 104**  
*Yoga Training Stress Management and Meditation*  
1 Unit 1 hour lecture  
Transfers: CSU  
Explores multiple techniques for guided meditation, with a focus on stress reduction. Techniques will be oriented towards working with both general and specialized populations, and will include basic psychology and physiology. Emphasis will be on integrating theories and principles into the practice and teaching of yoga. Hours can be applied toward Yoga Alliance continuing education requirements for yoga instructors.  
NR

**KNES 105**  
*Mental Skills for Sports Performance*  
3 Units 3 hours lecture  
Transfers: CSU  
Psychological theories and research related to sport and exercise behavior. Introduces the field of sport and exercise psychology by providing a broad overview of the major topics in the area. An applied course with an emphasis on improving performance for athletes and individuals that pursue physical activity.  
NR

**KNES 107**  
*Fitness Assessment and Survey*  
1 Unit 1 hour lecture  
Transfers: CSU  
Testing and assessment of fitness components, skill-related fitness, and aquatic ability. Information on nutrition, stress, weight management, and development of a personal program for lifetime fitness.  
NR

**KNES 187**  
*Beginning Pickleball*  
1 Unit 0.5 hours lecture 1.5 hours lab  
Transfers: CSU  
Pickleball is a court game that combines skills from tennis, ping pong, and badminton. This is a popular, fast-paced game played with a plastic "pickleball" and a composite paddle.  
NR

**KNES 202**  
*Mythology of Yoga*  
1 Unit 1 hour lecture  
Explores Hindu and Buddhist mythology as it relates to traditional and contemporary yoga practices, with a focus on the role of deities in ritual, asana and meditation practice. Emphasis will be on integrating stories, theories and principles into the practice and teaching of yoga (including mantras and mudras). Hours can be applied toward Yoga Alliance continuing education requirements for yoga instructors.  
NR

**KNES 203**  
*Training and Theory for Restorative Yoga*  
1 Unit 1 hour lecture  
Restorative yoga blends the use of postural alignment, props, and relaxation techniques to promote optimal health and wellness. Students will explore the effects and benefits on various systems of the body. Emphasis will be on integrating theories and principles into the practice and teaching of restorative yoga. Hours can be applied toward Yoga Alliance continuing education requirements.  
NR

**KOR 1**  
*Elementary Korean*  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Corequisite: KOR 901  
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.  
NR

**KOR 2**  
*Elementary Korean*  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: KOR 1 or two years of high school Korean  
Corequisite: KOR 902  
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.  
NR

**KOR 3**  
*Intermediate Korean*  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: KOR 2 or three years of high school Korean  
Corequisite: KOR 903  
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Korean cultures.  
NR

**KOR 4**  
*Intermediate Korean*  
5 Units 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: KOR 3 or four years of high school Korean  
Corequisite: KOR 904  
Emphasizes fluency in speaking, reading, writing, and comprehension of Korean. Includes selected readings and discussions from the basic four genres in Korean and Korean-American literature, culture, and customs.  
NR

**KOR 21**  
*Introduction to Korean Culture*  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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.  
NR
KOR 901
KOREAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: KOR 1
Requires concurrent enrollment in Korean 1. Enhances and provides practice in skills learned in Korean 1 course. NR

KOR 902
KOREAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: KOR 2
Requires concurrent enrollment in Korean 2. Enhances and provides practice in skills learned in Korean 2 course. NR

KOR 903
KOREAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: KOR 3
Requires concurrent enrollment in Korean 3. Enhances and provides practice in skills learned in Korean 3 language course. NR

KOR 904
KOREAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: KOR 4
Requires concurrent enrollment in Korean 4. Enhances and provides practice in skills learned in Korean 4 language course. NR

LIB 100
BASIC INFORMATION COMPETENCY SKILLS, LIBRARY RESEARCH
1 Unit 1 hour lecture
Transfers: CSU
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. NR

MFG 202
INDUSTRIAL MATERIALS
2 Units 2 hours lecture
Study of metals and non-metals common to industry, mining, physical and chemical properties and uses, latticé structure, alloy systems, mechanical tests and characteristics of strength, elasticity, ductility, malleability, heat treatment and surface coatings. NR

MFG 203
INTRODUCTION TO MANUFACTURING PROCESSES
2 Units 1 hour lecture 3 hours lab
Study of modern manufacturing techniques. The use of machine tools, testing devices, and inspection methods and the relation of design to production and assembly. NR

MFG 204
3D COMPUTER AIDED DESIGN - SOLIDWORKS
3 Units 2 hours lecture 4 hours lab
Recommended Preparation: DR/ARCH 50 and 51
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. NR

MFG 205
SILICONE AND URETHANE MOLD MAKING
3 Units 2 hours lecture 3 hours lab
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.  

**MFG 206  
RESIN AND FOAM CASTING  
3 Units 2 hours lecture 3 hours lab**

Recommended Preparation: 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.  

**MFG 207  
CNC COMPUTER NUMERICAL CONTROL PROGRAMMING I  
3 Units 2 hours lecture 4 hours lab**

A basic course in numerical control programming using G and M codes, Computer Numerical Control (CNC). Emphasis will be on verification for numerical control machine tools. Students write, debug, edit and create programs required for successful execution on a CNC Mill.  

**MFG 208  
CNC COMPUTER NUMERICAL CONTROL PROGRAMMING II  
3 Units 2 hours lecture 4 hours lab**

Recommended Preparation: MFG 207

Concentrates on practical applications of numerical control programming. Special emphasis will be placed on HSMworks and Mastercam. Students will write, debug, edit and execute programs on Computer Numerical Control (CNC) machines.  

**Marine Science**

**MS 4  
SOUTHERN CALIFORNIA COASTAL ECOLOGY  
4 Units 3 hours lecture 3 hours lab**

Transfers: CSU, UC

A study of biological systems and processes associated with coastal environments in Southern California. Emphasizes subtidal, tidal, coastal and estuarine environments as well as human impacts on the ecosystem. Field trips may be required to fulfill the objectives of this course.  

**MS 20  
INTRODUCTION TO OCEANOGRAPHY  
4 Units 3 hours lecture 3 hours lab**

Transfers: CSU, UC

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 205  
MSFS - ANCIENT MARINE WONDERS OF ANZA-BORREGO STATE PARK  
1 Unit 0.5 hour lecture 1.5 hours lab**

Exploration of the ancient marine geological wonders of Anza-Borrego Desert State Park. Includes study of the tectonic history, the human history, and the natural processes of the area. Thematic emphasis may vary. Students enrolled in marine science and geology are encouraged to attend.  

**MS 206  
MSFS - CALIFORNIA COAST FROM MALIBU TO SANTA BARBARA  
1 Unit 0.5 hour lecture 1.5 hours lab**

Exploration of the natural history of the California coastline from Malibu to Santa Barbara. Includes study of the marine life, beach processes, and coastal mountains that shape this beautiful area. Thematic emphasis may vary. Students in marine science and geology are encouraged to enroll.  

**Marine Science Technology**

**MST 201  
MARLINSPIKE SEAMANSHIP  
2 Units 1.5 hours lecture 1.5 hours lab**

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. Field trips are required.  

**MST 202  
MARINE WEATHER  
3 Units 3 hours lecture**

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.  

**MST 210  
COASTAL NAVIGATION  
3 Units 2.5 hours lecture 1.5 hours lab**

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.
MST 211  
CELESTIAL NAVIGATION  
3 Units 2.5 hours lecture 1.5 hours lab  
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. NR

MST 212  
SAILING, SEAMANSHIP, AND BOATING SAFETY  
3 Units 2.5 hours lecture 1.5 hours lab  
Techniques of small-boat handling, rules of the road, coastal piloting, safety at sea, and small-craft maintenance. Emphasis is placed on practical experience gained during at-sea laboratory sessions aboard the college fleet of Capri 14's. Students will complete the California Department of Boating and Waterways Safe Boating Course and obtain a Safe Boating Certificate by the National Association of State Boating Law Administrators. NR

MST 214A  
INTERMEDIATE OCEAN SAILING  
3 Units 2.5 hours lecture 1.5 hours lab  
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. NR

MST 214B  
ADVANCED CRUISING UNDER SAIL  
3 Units 2.5 hours lecture 1.5 hours lab  
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, watchstanding, 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. NR

MST 215  
VESSEL COMMAND AND ORGANIZATION  
3 Units 2.5 hours lecture 1.5 hours lab  
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. NR

MST 216  
USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE  
3 Units 2.5 hours lecture 1.5 hours lab  
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. NR

MST 218  
ELECTRONIC AIDS TO NAVIGATION  
3 Units 2.5 hours lecture 1.5 hours lab  
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. NR

MST 219  
MARINE ECOLOGICAL SURVEY/GIS  
3 Units 2 hours lecture 3 hours lab  
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. NR

MST 224  
INTRODUCTION TO CRUISING THE CHANNEL ISLANDS  
1.5 Units 1 hour lecture 1.5 hours lab  
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
Mathematics

MATH 2
PRE-CALCULUS MATHEMATICS
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 124
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. NR

MATH 3A
ANALYTIC GEOMETRY AND CALCULUS
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 2
A first course in differential and integral calculus of a single variable: functions; limits and continuity; techniques and applications of differentiation and integration; Fundamental Theorem of Calculus. NR

MATH 3AH
HONORS ANALYTIC GEOMETRY AND CALCULUS
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: Combination of MATH 2, passing grade and score of at least 80% on entrance exam administered by the Math Department
A first course in differential and integral calculus of a single variable: functions; limits and continuity; techniques and applications of differentiation and integration; Fundamental Theorem of Calculus. This is the Honors version of Math 3A. It covers the above topics in a more thorough and rigorous manner than 3A and introduces students to proof-writing techniques. Credit may be earned in MATH 3A or 3AH, but not both. NR

MATH 3B
ANALYTIC GEOMETRY AND CALCULUS
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3A
A second course in differential and integral calculus of a single variable: integration; techniques of integration; infinite sequences and series; polar and parametric equations; applications of integration. NR

MATH 3C
ANALYTIC GEOMETRY AND CALCULUS
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3B
Vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, divergence theorem. NR

MATH 7
COLLEGE ALGEBRA
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 2
Presents a study of the techniques of calculus with emphasis placed on the application of these concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied. NR

MATH 10
INTRODUCTION TO STATISTICS
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. NR

MATH 11
A BRIEF COURSE IN CALCULUS
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 8
Presents a study of the techniques of calculus for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education. NR

MATH 24
ELEMENTARY DIFFERENTIAL EQUATIONS
4 Units 4 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3B
An introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exist, and techniques for obtaining solutions, including, series solutions, and singular points, Laplace transforms and linear systems. NR
MATH 26
INTRODUCTION TO LINEAR ALGEBRA
4 Units 4 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3B
Develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included. NR

MATH 112
MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS
5 Units 5 hours lecture
Transfers: CSU
Prerequisite: MATH 253
Focuses on the development of quantitative reasoning skills through in-depth, activity-based explorations of topics in mathematics, including real numbers systems, subsystems, geometric concepts in two- and three-dimensional space, and descriptive statistics. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. NR

MATH 124
TRIGONOMETRY
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: MATH 253
Trigonometric functions with emphasis on both the unit circle and the right triangle methodologies. NR

MATH 205
MATH FOR THE ASSOCIATE DEGREE
3 Units 3 hours lecture
Prerequisite: MATH 353
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. This course is designed for students not intending to transfer. NR

MATH 253
INTERMEDIATE ALGEBRA
5 Units 5 hours lecture
Prerequisite: MATH 253
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. NR

MATH 351
PRE-ALGEBRA MATHEMATICS
3 Units 3 hours lecture
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. NR

MATH 353
BEGINNING ALGEBRA
5 Units 5 hours lecture
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 (formerly MATH 251). NR

Medical Assisting

MA 206
INTRODUCTION TO MEDICAL ASSISTING
3 Units 3 hours lecture
Introduces the career of medical assisting. Discusses the history and evolution of health care; health care settings; roles and responsibilities of healthcare professionals including the medical assistant's scope of practice; medical law and ethics and specifics related to the medical assistant; emergency preparation; preparing for the job search; and medical office management fundamentals. Letter Grade Only. NR

MA 211A
MEDICAL RECEPTION TECHNIQUES
2.5 Units 2.5 hours lecture
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. NR

MA 211B
PHYSICAL EXAMINATION PROCEDURES
3 Units 2 hours lecture 3 hours lab
Includes selected medical office clinical skills of physical measurements, 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. NR

MA 212A
MEDICAL OFFICE FINANCIAL PROCEDURES
2.5 Units 2.5 hours lecture
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. NR
MA 212B
MEDICAL OFFICE LABORATORY PROCEDURES
3 Units 2 hours lecture 3 hours lab
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. NR

MA 213A
MEDICAL RECORDS MANAGEMENT
2.5 Units 2.5 hours lecture
Recommended Preparation: HSC 201
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. NR

MA 213B
MEDICAL ASEPSIS AND SURGICAL PROCEDURES
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: HSC 201
Develops selected medical-office clinical skills including medical and surgical asepsis, minor surgical techniques and medical office facilities and equipment management. Letter grade only. NR

MA 214B
MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS
3 Units 2 hours lecture 3 hours lab
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. NR

MA 217A
MEDICAL ASSISTING CLINICAL EXPERIENCE--ADMINISTRATION
3 Units 9 hours lab
Prerequisite: Enrollment in Medical Assistant Program and completion of MA 206, 212A, 212A, 213A, HSC 201, 222, 223, and MA 224A, 226A, 228A, 260
Limitation: (1) Must have current Basic Life Support CPR card for Healthcare Providers; (2) Must have professional liability insurance; (3) Physical examination and health clearance are required
Provides supervised directed practice in a physician's office, medical clinic, or other allied health facility. This experience will emphasize development of medical front-office skills with consideration for ethical and legal concepts. Scheduled class sessions will assist the student in dealing with problems encountered in the work-setting. Letter grade only. NR

MA 217B
MEDICAL ASSISTING CLINICAL EXPERIENCE CLINICAL
3 Units 9 hours lab
Prerequisite: Enrollment in Medical-Assistant Program and completion of MA 206, 212A, 212A, 213A, HSC 201, 222, 223, and MA 224A, 226A, 228A, 260
Limitation: (1) Must have current Basic Life Support CPR card for Healthcare Providers; (2) Must have professional liability insurance; (3) Physical examination and health clearance are required
Provides supervised directed practice in an electrocardiography setting. Letter grade only. NR

MA 218B
ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT
2 Units 1 hour lecture 3 hours lab
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. NR

MA 224A
BASIC MEDICAL INSURANCE
3 Units 3 hours lecture
Introduces students to basics of medical billing. Covers the various insurance plans, and various payment methods for medical office and professional/ambulatory care billing. Covers terminology related to reimbursement and completion of claim forms. Letter grade only (formerly INSR 224A). NR

MA 226A
FUNDAMENTALS OF CPT AMBULATORY CODING FOR MEDICAL ASSISTANTS
3 Units 3 hours lecture
Recommended Preparation: HSC 201
Provides instruction and practice in basic CPT and other ambulatory procedural coding for physician and other outpatient/ambulatory services. Covers format, conventions, guidelines, and use of CPT/HCPCS. Letter grade only (formerly INSR 226A). NR

MA 228A
FUNDAMENTALS OF ICD CODING
3 Units 3 hours lecture
Recommended Preparation: HSC 201
Designed for students to understand the format and use of the ICD. Covers general and chapter-specific guidelines for coding for medical office and professional/ambulatory care settings. Students will also gain knowledge about the symbols and conventions of the ICD, as well as ethics in coding. Letter grade only (formerly INSR 228A). NR

MA 260
COMPUTER APPLICATIONS EHR IN HEALTH CARE
3 Units 2.5 hours lecture 1.5 hours lab
Provides orientation to office-based computer applications including electronic health records (EHR), scheduling electronic appointments, electronic spreadsheets, health information systems and billing. Focuses on electronic health records and medical billing. Letter grade only (formerly INSR 260). NR

MLT 210
INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION
1 Unit 1 hour lecture
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 relevant 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. NR

MLT 211
BASIC LABORATORY PROCEDURES
1 Unit 1 hour lecture
Recommended Preparation: MATH 205 or 253
Designed to introduce the student to basic clinical laboratory procedures common to all diagnostic-related tasks. Emphasis will be placed on proper use of manual pipettes and semi-automated micropipettors, preparation of serial dilutions, making buffers and reagents from stock solutions, calibration and use of balances, sterile techniques, centrifuges and spectrophotometers. Introduction to basic laboratory math and statistics. NR

MLT 226A
ADMISSION INTO THE MLT PROGRAM
3 Units 3 hours lecture
Prerequisite: Official admission to the MLT program
Recommended Preparation: MLT 211
Students learn how to identify microorganisms of medical microbiology with emphasis on the characteristics of clinically significant microorganisms and their biochemical profile, media for isolation, and identification methods for selected pathogens. Introduces identification methods, theories, and techniques used in basic bacteriology parasitology, and mycology. Emphasizes routine identification. NR

MLT 235
CLINICAL URINALYSIS
1 Unit 1 hour lecture
Prerequisite: MLT 211 & Official Admission Into the MLT Program
Recommended Preparation: MLT 210
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 microscopically. Requires comparison of clinical values as related to the physiology of the urinary system in health and disease. NR

MLT 236
CLINICAL MICROBIOLOGY AND COAGULATION
3 Units 3 hours lecture 1 hour lab
Prerequisite: Official admission to the MLT program
The study of hematologic disorders, normal and abnormal cell development, morphology, symptoms of hematologic disease and related testing. Presents an overview of the hemostatic process, diseases, and laboratory evaluations. Includes normal values and abnormal results, specimen processing and quality control. NR
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours</th>
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<tr>
<td>MLT 242</td>
<td>Clinical Chemistry Practical</td>
<td>4</td>
<td>12.5 lab</td>
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<td>(Prerequisite: MLT 230)</td>
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<td>Limitation: Completion of all required didactic</td>
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<td>evaluated based on final clinical evaluations.</td>
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| MLT 243     | Clinical Immunology - Immunohematology Practical  | 3           | 10 hours lab |
|             | (Prerequisite: MLT 243 & Official Admission into |             |              |
|             | the MLT Program)                                 |             |              |
|             | Introduces the basic principles of antigen and    |             |              |
|             | antibody reactions and serological procedures.   |             |              |
|             | Includes accurate measurement strategies.         |             |              |

| MLT 244     | Clinical Hematology, Coagulation, and Urinalysis  | 4           | 12.5 hours   |
|             | Practical                                    |             | lab          |
|             | (Prerequisite: MLT 236)                          |             |              |
|             | Limitation: Completion of all required didactic   |             |              |
|             | courses and acceptance into a clinical site.     |             |              |
|             | 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 tech/manual methods. Competence will be   |             |              |
|             | evaluated based on final clinical evaluations.   |             |              |

| MLT 252     | Clinical Microbiology Practical                  | 4           | 12.5 hours   |
|             | (Prerequisite: MLT 232)                          |             | lab          |
|             | Limitation: Completion of all required didactic   |             |              |
|             | courses and acceptance into a clinical site.     |             |              |

| MUS 11      | Harmony I                                        | 3           | 3 lecture    |
|             | (Transfer: CSU, UC)                             |             |              |
|             | 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      | Harmony III                                      | 3           | 3 lecture    |
|             | (Transfer: CSU, UC)                             |             |              |
|             | 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      | Jazz Composition and Arranging                  | 3           | 3 lecture    |
|             | (Transfer: CSU, UC)                             |             |              |
|             | 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. Students are limited to  |             |              |
|             | a combined total of four enrollments in MUS 14, |             |              |
|             | 15, and 119.                                   |             |              |

| MUS 15      | MusiC Composition                                | 3           | 3 lecture    |
|             | (Transfer: CSU, UC)                             |             |              |
|             | 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. Students are  |             |              |
|             | limited to a combined total of four              |             |              |
enrollments in MUS 14, 15, and 119. NR

MUS 20
MUSIC APPRECIATION
3 Units 3 hours lecture
Transfers: CSU, UC
A survey of musical forms and important composers and their works from the Middle Ages through the 21st century. Stylistic concepts for each period will be studied and demonstrated. Students are limited to a combined total of four enrollments in MUS 20, 23, and 24. NR

MUS 23
INTRODUCTION TO WORLD MUSIC
3 Units 3 hours lecture
Transfers: CSU, UC
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 ethnomusicological skills. Students are limited to a combined total of four enrollments in MUS 20, 23, and 24. NR

MUS 24
MUSIC SINCE 1900
3 Units 3 hours lecture
Transfers: CSU, UC
A study of a cross-section of 20th and 21st music and musicians. A study of the music, musical styles, and major composers of classic, jazz, and film music. The stylistic concepts used by such composers as Stravinsky, Bartok, Schonberg will be examined and demonstrated. The musical life and contributions of each composer will be studied. Students are limited to a combined total of four enrollments in MUS 20, 23, and 24. NR

MUS 27
HISTORY OF JAZZ
3 Units 3 hours lecture
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in MUS 27 and 28. NR

MUS 28
HISTORY OF ROCK
3 Units 3 hours lecture
Transfers: CSU, UC
A study of the elements of rock music tracing the development and evolution of its styles and structures, including sociological and political aspects, from rock's beginning to the present time. Students are limited to a combined total of four enrollments in MUS 27 and 28. NR

MUS 31
CHAMBER CHOIR
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
This ensemble will perform major works for chamber choir primarily from, but not limited to, the 17th and early 18th centuries. Emphasis is placed on recent research in authentic performance practices. Different literature will be performed each semester. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, 233, and 234. R-E-2

MUS 32
SINGING SOCIETY
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, 233, and 234. NR

MUS 33
MASTERWORKS CHORALE
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college faculty including the ability to sight read.
Students will perform choral repertoire selected from the 18th through 21st centuries with special emphasis on larger choral/orchestral or unaccompanied works. This course will include study of the appropriate harmonic, rhythmic, melodic and textural vocabulary as seen in this repertoire. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, 233, and 234. R-E-3

MUS 34
EARLY MUSIC ENSEMBLE
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college faculty including demonstration of ability to sight read.
Students will perform sacred and secular repertoire suitable for chamber ensemble from the 15th to 17th centuries. Unaccompanied works and music with instrumental accompaniment are included. Emphasizes a cultivation of skills needed to sing music from a variety of styles within the Early, Renaissance, and through the pre-Baroque era. Students are limited to a combined total of four enrollments in MUS 34 and 35. NR

MUS 35
CONTEMPORARY CHOIR
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college faculty including demonstration of ability to sight read.
Study and performance of sacred and secular repertoire suitable for vocal chamber ensemble of 20th and 21st century composers. Unaccompanied works and music with instruments or keyboard accompaniment are included. Singers will develop skills required for performance of both traditional and avant-garde choral composition. Students are limited to a
MUS 39
COMMERCIAL MUSIC ENSEMBLE
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Limitation: Audition with college staff
Rehearsal and performance of commercial songs and material including but not limited to the blues, classic rock 'n' roll, folk rock standards, hip-hop, current popular music, electronic music and original material. Open to instrumentalists, mid instruments/controllers, vocalists, emcees and DJs. Public performance required (formerly MUS 122). Students are limited to a combined total of four enrollments in MUS 39, 182, 184, and 187. NR

MUS 41
SYMPHONIC WIND ENSEMBLE
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
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
SYMPHONIC ORCHESTRA
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation:
Previous experience in a performing ensemble (wind ensemble, orchestra, string orchestra) at a minimum of a high school level with ability to sight read and knowledge of all scales and keys.
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
STRING ORCHESTRA
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation:
Previous experience in a performing ensemble (wind ensemble, orchestra, string orchestra) at a minimum of a high school level with ability to sight read and knowledge of all scales and keys. Study of string literature from baroque, classical, romantic, and 20th and 21st century eras of music. Designed to read, study, and perform orchestral literature written especially for strings. Offered as open-entry/open-exit. NR

MUS 46
JAZZ IMPROVISATION
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 10 or placement audition
Study of jazz theory, transcription, awareness of historically important jazz improvisers, and the internationalization of jazz rhythm. Provides students with the opportunity to develop technical command of instrument and fosters the ability to create stylistically appropriate improvised melodies. NR

MUS 47
SADDLEBACK COLLEGE BIG BAND
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in MUS 47, 246, and 247. R-E-3

MUS 50
APPLIED MUSIC
1 Unit 3 hours lab
Transfers: CSU, UC
Limitation: College audition and concurrent enrollment in performance ensemble
Individual instruction at the advanced level in voice, piano, or instrumental music. Designed to develop technical competence, stylistic interpretation, and performance practice. Students are limited to a combined total of four enrollments in MUS 50. R-E-3

MUS 54A
BEGINNING PIANO I
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 54A or demonstrated proficiency
A first level introductory course in piano, with instruction in elementary 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. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56. NR

MUS 54B
BEGINNING PIANO II
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 54A or demonstrated proficiency
A second level 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. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56. NR

MUS 55A
INTERMEDIATE PIANO I
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 54B or demonstrated proficiency
Secondary Level Piano Course with instruction in selected 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 third semester level. Keyboard harmony will be emphasized. Masterclass format. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56.  NR

MUS 55B
INTERMEDIATE PIANO II
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 55A or demonstrated proficiency.
Secondary Level Piano Course with continuing instruction on all major and minor scales, piano technique, first and second chord inversions, tone production, sight-reading, building of repertoire and performance styles, and heightened emphasis on ensemble performance. Includes technical and interpretive development of piano performance ability at a fourth semester level. Keyboard harmony will be emphasized. Masterclass format. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56.  NR

MUS 56
ADVANCED PIANO
2.5 Units 2 hours lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55B or four years of piano study
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. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56.  NR

MUS 58
PIANO REPERTOIRE AND PERFORMANCE PROCEDURES
2.5 Units 2 hours lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A or B or demonstrated proficiency
The study of important piano solo literature from Bach to contemporary with emphasis on technique and procedures in solo-performance preparation. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 60
BEGINNING CLASSICAL GUITAR
1 Unit 1 hour lecture 1 hour lab
Transfers: CSU, UC
Emphasizes solo finger-style guitar playing on acoustic nylon-string guitar. Beginning-level music reading. No previous experience necessary. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260.  NR

MUS 61
INTERMEDIATE CLASSICAL GUITAR
1 Unit 1 hour lecture 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 60
Solo and ensemble fingerstyle playing on acoustic nylon-string guitar. Intermediate level music reading. Chordal accompaniment. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260.  NR

MUS 62
ADVANCED CLASSICAL GUITAR
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260.  NR

MUS 63
ENSEMBLE TECHNIQUES FOR 21ST CENTURY
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
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. Students are limited to a combined total of four enrollments in MUS 63, 66, and 266. NR

MUS 64
PIANO ENSEMBLE
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A 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. Students are limited to a combined total of four enrollments in MUS 64 and 65. R-E-2

MUS 65
PIANO ACCOMPANYING
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A or two years of piano study
Studies techniques of instrumental and vocal accompaniment through actual accompanying experience. Particular emphasis will be given to style, interpretation and techniques of accompanying and sight-reading. Students are limited to a combined total of four enrollments in MUS 64 and 65. R-E-3

MUS 66
CHAMBER MUSIC
2 Units 1 hour lecture 3 hours lab
MUS 81
INTERMEDIATE VOICE
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 80
Techniques of singing without the aid of a microphone. Application of this study in vocalization and repertoire. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82. NR

MUS 82
VOCAL REPERTOIRE AND PERFORMANCE PROCEDURES
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82. NR

MUS 86
INTRODUCTION TO HARPSTICK TECHNIQUE AND LITERATURE
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 86 or demonstrated harpsichord proficiency
Third semester study of Harpsichord, its history, performance practices, technique and repertoire. Masterclass format. Students will learn Baroque and Galant styles pieces written for harpsichord, as well as ornaments, fingering, dynamics and articulation on the instrument. Emphasis on pieces from Spanish, Italian and German harpsichord schools of the 18th century (High Baroque). Students are limited to a combined total of four enrollments in MUS 86, 87, 88, and 89. Formerly MUS 108. NR

MUS 89
HARPSTICK LITERATURE AND TECHNIQUE I - LATE INTERMEDIATE
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 88 or demonstrated harpsichord proficiency
Fourth semester study of Harpsichord, its history, performance practices, technique and repertoire. Masterclass format. Students will learn advanced Harpsichord pieces written for harpsichord, as well as ornaments, fingering, dynamics and articulation on the instrument. Emphasis on pieces from Spanish, Italian and German harpsichord schools of the 18th century (High Baroque). Students are limited to a combined total of four enrollments in MUS 86, 87, 88, and 89. Formerly MUS 108. NR

MUS 87
HARPSTICK LITERATURE AND TECHNIQUE II - LATE BEGINNER
MUS 92
MUSICIANSHIP I
1 Unit 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 1
Sight-reading, ear training, and dictation of diatonic melodies and harmonies; rhythmic reading and dictation. Students are limited to a combined total of four enrollments in MUS 92, 93, and 94. NR

MUS 93
MUSICIANSHIP II
1 Unit 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 92
Sight-reading, ear training, and dictation of advanced diatonic melodies and harmonies; rhythmic reading and dictation. Required of all music majors. Students are limited to a combined total of four enrollments in MUS 92, 93, and 94. NR

MUS 94
MUSICIANSHIP III
1 Unit 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 93
Includes advanced sight-reading, ear training, and dictation of chromatic melodies and harmonies; rhythmic reading and dictation; keyboard harmony. Students are limited to a combined total of four enrollments in MUS 92, 93, and 94. NR

MUS 96
INTRODUCTION TO ORGAN TECHNIQUE AND LITERATURE CLASS
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A or demonstrated keyboard proficiency
Introduction to organ manual and pedal techniques, basic registration, hymn playing and organ literature. Performance of simple compositions, accompaniments and hymn tunes. Baroque organ style interpretation. Students are limited to a combined total of four enrollments in MUS 96, 97, 98, and 99. Formerly MUS 102. NR

MUS 97
ORGAN TECHNIQUE AND LITERATURE CLASS
BEGINNING
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 96
Second semester instruction in keyboard and pedal techniques, registration, basic hymn playing and organ literature. Performance of compositions for manuals and pedals, accompaniments and hymns. Classical style performance practice and interpretation. Students are limited to a combined total of four enrollments in MUS 96, 97, 98, and 99. Formerly MUS 103. NR

MUS 98
ORGAN TECHNIQUE AND LITERATURE CLASS
INTERMEDIATE (A), EARLY
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 97 or demonstrated organ proficiency
Instruction in keyboard and pedal techniques, registration, articulation, hymns and organ literature. Performance of organ compositions with pedals, accompaniments and hymn tunes. Romantic Organ Music Interpretation. Performance Practice. Basic Concert Procedures. Students are limited to a combined total of four enrollments in MUS 96, 97, 98, and 99. Formerly MUS 104. NR

MUS 99
ORGAN TECHNIQUE AND LITERATURE CLASS
INTERMEDIATE (B), LATE
2 Units 2 hours lecture 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 98 or demonstrated organ proficiency.
Instruction in keyboard and pedal techniques, registration, articulation, phrasing, dynamics, ornaments and varied repeats in hymns and standard organ literature. Performance of organ compositions for manuals with pedal, accompaniments and hymn tunes. Historical Performance Practice. Contemporary Organ style. Concert Procedures. Recital Performance. Late Intermediate Level. Students are limited to a combined total of four enrollments in MUS 96, 97, 98, and 99. Formerly MUS 105. NR

MUS 117
POPULAR SONGWRITING
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: MUS 1
Explores the popular music songwriting process. Emphasis will be placed on the mechanics of music: rhythm, form, styles, melody and harmony. Students will also explore the relationship between lyrics and music. NR

MUS 118
DIGITAL MULTI-TRACK MUSIC RECORDING
2.5 Units 2 hours lecture 2 hours lab
Transfers: CSU
Initial exposure to sound-recording principles, techniques, and equipment. Emphasizes multi-track music recording process, editing and mixing. Students will receive hands-on experience with professional 24 track digital recording equipment while the class participates in a variety of recording projects. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR
MUS 119
ADVANCED MUSIC COMPOSITION
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: MUS 15
Composition of large scale chamber works using intermediate/advanced level 20th and 21st century compositional techniques. Covers writing for combinations of standard orchestral instruments and the development of individual compositional style. Students are limited to a combined total of four enrollments in MUS 14, 15, and 119. NR

MUS 120
INTRODUCTION TO THE MUSIC INDUSTRY
3 Units 3 hours lecture
Transfers: CSU
A survey of the music industry with focus on skill, experience and education needed for careers within the industry. Other topics covered include music publishing, performing rights societies, music licensing, digital distribution, record companies and artist management. NR

MUS 124
COMPUTER ASSISTED MUSIC NOTATION
1 Unit 1 hour lecture 1 hour lab
Transfers: CSU
Prerequisite: MUS 1
Techniques and principles of computer music notation. Topics include the Finale interface, basic notation techniques, expressive markings, document layout and idiomatic notation. NR

MUS 130
MUSIC PRODUCTION I
2.5 Units 2 hours lecture 2 hours lab
Transfers: CSU
An introduction to computerized music creation. Topics will include an overview of the digital audio workstation, software and hardware setup, midi, virtual instruments, drum rack, signal processing and controllers. Emphasis will also be placed on musical elements such as form, style, pitch, melody, harmony and tempo. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 131
MUSIC PRODUCTION II
2 Units 2 hours lecture 1 hour lab
Transfers: CSU
Prerequisite: MUS 130
A second-level course in music production. Topics will include audio effects, advanced midi effects, sampling, creating loops, signal routing and advanced controllerism. Emphasis will also be placed on studying and emulating dance music styles. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 132
INTRODUCTION TO MUSIC TECHNOLOGY
2 Units 2 hours lecture 1 hour lab
Transfers: CSU
An introduction course to basic principals in music technology. Topics will include sound properties, hardware, software, midi, sampling and notation software. Emphasis will also be placed on basic audio and midi editing. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 140
IMPROVED MUSIC IN A JAZZ COMBO
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Recommended Preparation: Previous instrumental training and demonstrated proficiency in jazz performance and ability to sight read and knowledge of all scales and keys.
Technical, historical and cultural approaches to jazz improvisation. Students are limited to a combined total of four enrollments in MUS 140 and 197. Formerly offered as MUS 240. R-E-3

MUS 148
JAZZ ENSEMBLE
2 Units 1 hour lecture 3 hours lab
Transfers: CSU

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. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. R-E-3

MUS 166
BAROQUE CHAMBER MUSIC
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Limitation: Students must be able to sight read and play at a college level.
Baroque Chamber music is designed for pianists, string, woodwind, and brass players to study chamber-music works from the Baroque era. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, 166, 167, 168, 169, and 266. NR

MUS 167
CONTEMPORARY (20TH & 21ST CENTURY) CHAMBER MUSIC
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Limitation: Students must be able to sight read and play at a college level.
Contemporary chamber music is designed for pianists, string, woodwind and brass players to study chamber-music works from the Twentieth and Twenty-First Centuries. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, 166, 167, 168, 169, and 266. NR

MUS 168
ROMANTIC CHAMBER MUSIC
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Limitation: Students must be able to sight read and play at a college level.
Romantic Chamber Music is designed for pianists, string, woodwind and brass players to study chamber-music works from the Romantic era. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, 166, 167, 168, 169, and 266. NR

MUS 169
CLASSICAL CHAMBER MUSIC
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Limitation: Students must be able to sight read and play at a college level.
Classical Chamber Music is designed for pianists, string, woodwind and brass players to study chamber-music works from the Classical era. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, 166, 167, 168, 169, and 266. NR

MUS 172
BEGINNING STRINGS
2 Units 2 hours lecture 1 hour lab
Transfers: CSU
An introductory course in Beginning Strings, with instruction in elementary music-reading, repertoire, strings technique, tone production, sight-reading, and performance styles for music and non-music majors at a first-year level. NR

MUS 173
INTERMEDIATE GUITAR
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Recommended Preparation: MUS 260
Use the basic layout of the guitar to further each student's understanding of the guitar fingerboard through a hands-on approach to the guitar's intermediate vocabulary including more advanced exercises and more challenging repertoire. A deeper look into the application of music theory to the guitar fingerboard and an introduction on how to improvise a guitar solo will also be explored. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260. NR

MUS 178
BEGINNING PIANO PEDAGOGY
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Recommended Preparation: Two years of piano study
Designed to study the art of piano teaching. Traces the history of piano method books and demonstrate the most effective teaching methods used today. Students will be given an opportunity to directly teach a 3rd grade student with guidance from the instructor. This course is offered for music major students as well as community teachers who wish to improve and refine their teaching style. Students are limited to a combined total of four enrollments in MUS 178, 179, and 256. NR

MUS 179
INTERMEDIATE PIANO PEDAGOGY
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Recommended Preparation: Three 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 emphasize the technical and interpretive styles of the four major music periods. Students will be given an opportunity to directly teach a 5th grade student with guidance from the instructor. This course is offered for music major students as well as community teachers who wish to improve and refine their teaching style. Students are limited to a combined total of four enrollments in MUS 178, 179, and 256. NR

MUS 182
SOUL MUSIC ENSEMBLE
2 Units 2 hours lecture 1 hour lab
Transfers: CSU
Limitation: Audition: Student must perform at college level as determined by faculty
Rehearsal and performance of soul music with a concentration on artists from the 1960s and 1970s. Additional focus on live sound, marketing and promotion. Open to instrumentalists, midi instruments/Controllers, vocalists, emcees and DJs. Public performance required. Students are limited to a combined total of four enrollments in MUS 39, 182, 184, and 187. NR

MUS 184
ELECTRONIC MUSIC ENSEMBLE
2 Units 2 hours lecture 1 hour lab
Transfers: CSU
Limitation: Audition: Student must perform at college level as determined by faculty
Rehearsal and performance of electro-acoustic material with a focus on current electronic genres. Open to instrumentalists, midi instruments/controllers, vocalists, emcees and DJs. Additional focus on live sound, marketing and promotion. Public performance required. Students are limited to a combined total of four enrollments in MUS 39, 182, 184, and 187. NR
MUS 195
REHEARSAL AND PERFORMANCE
(INSTRUMENTAL)
1 Unit 3 hours lab
Transfers: CSU

Recommended Preparation:
Previous instrumental training and demonstrated proficiency in a performing ensemble (wind ensemble, orchestra, string orchestra) at a minimum of a high school level with ability to sight read and knowledge of all scales and keys.

Emphasizes the preparation of productions for public performance throughout the semester. Offered as open-entry/open-exit. Formerly MUS 295. NR

MUS 202
BASIC ENSEMBLE I
1.5 Units 1 hour lecture 2 hours lab

Limitation: Ability to read and play music at a high school level.

An introduction to foundational ensemble performance skills and concepts. Basic preparation for college level ensemble rehearsal and performance environments. Included is an overview of foundational musical pedagogy, notation, and terminology. Students are limited to a combined total of four enrollments in MUS 176, 177, 202, and 203. NR

MUS 203
BASIC ENSEMBLE II
1.5 Units 1 hour lecture 2 hours lab

Limitation: Ability to read and play music at a high school level.

Preparation for college ensemble rehearsal and performance environments. Foundational musical pedagogy, notation, and terminology are presented. This course is a continuation of skills learned in Basic Ensemble I. Students are limited to a combined total of four enrollments in MUS 176, 177, 202, and 203. NR

MUS 206
ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS I
1.5 Units 1 hour lecture 2 hours lab

Limitation: Ability to read and play music at a high school level.

Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on rehearsal and performance techniques. Students are limited to a combined total of four enrollments in MUS 206, 207, 208, and 209. NR

MUS 207
ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS II
1.5 Units 1 hour lecture 2 hours lab

Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on sight reading skills. Students are limited to a combined total of four enrollments in MUS 206, 207, 208, and 209. NR

MUS 208
ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS III
1.5 Units 1 hour lecture 2 hours lab

Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on rehearsal and performance techniques. Students are limited to a combined total of four enrollments in MUS 206, 207, 208, and 209. NR

MUS 209
ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS IV
1.5 Units 1 hour lecture 2 hours lab

Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on rehearsal and performance techniques. Students are limited to a combined total of four enrollments in MUS 206, 207, 208, and 209. NR

MUS 232
CHORAL TECHNIQUES
2 Units 1 hour lecture 3 hours lab

Limitation: Audition with college faculty including demonstration of ability to sight read, be able to match pitch accurately, to be able to recreate a series of rhythms, and to phonate pitches in a range that would be suitable for treble chorus music.

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. This course is offered as open-entry/open-exit. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, 233, and 234. NR

MUS 233
CONTEMPORARY CHORAL MUSIC FOR TREBLE VOICES
2 Units 1 hour lecture 3 hours lab

Limitation: Audition with college faculty demonstrating working knowledge of music reading, pitch recognition, and rhythmic patterns for their success in the rehearsal
MUS 241

MEDIMUM SIZE MALLEABLE JAZZ ENSEMBLE

2 Units 1 hour lecture 3 hours lab

Recommended Preparation: MUS 27 and instrumental technical proficiency

Performance of American improvised music by medium sized ensemble in both a traditional and experimental scope. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. NR

MUS 242

MID-SIZE AFRI-CAN-AMERI-CAN BASED ENSEMBLE JAZZ

2 Units 1 hour lecture 3 hours lab

Recommended Preparation: MUS 27 and instrumental technical proficiency

Performance of music influenced by African-American improvised music in both a traditional and experimental scope. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. NR

MUS 246

CONTEMPORARY BIG BAND LITERATURE

2 Units 1 hour lecture 3 hours lab

Limitation: Audition with college faculty demonstrating ability to sight read, identify and write key signatures, identify and write all major and minor scales, differentiate between major, minor, augmented and diminished, intervals, demonstrate an understanding of all diatonic chords in music, and demonstrate the performance of rhythmic patterns in music.

Recommended Preparation: Previous instrumental training and demonstrated proficiency in jazz performance, ability to sight read and knowledge of all scales and keys.

Performance of contemporary big band literature from the late 20th and early 21st centuries. Interpretation, phrasing, and cultural context of each piece will be addressed and performed. Students are limited to a combined total of four enrollments in MUS 47, 246, and 247. NR

MUS 247

MODERN BIG BAND CONCEPTS

2 Units 1 hour lecture 3 hours lab

Recommended Preparation:

Previous instrumental training and demonstrated proficiency in jazz performance, ability to sight read and knowledge of all scales and keys.

Explores new music by young composers at the vanguard of large ensemble jazz. Interpretation of modern application of African-American and Western European compositional styles as combined in the 21st century. Students are limited to a combined total of four enrollments in MUS 47, 246, and 247. NR

MUS 252A

JAZZ PIANO I

1.5 Units 1 hour lecture 2 hours lab

Recommended Preparation: MUS 54A 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. Students are limited to a combined total of four enrollments in MUS 252A, 252B, and 252C. NR

MUS 252B

JAZZ PIANO II

1.5 Units 1 hour lecture 2 hours lab

Recommended Preparation: MUS 252A or demonstrated keyboard proficiency

Develop advanced harmonic and improvisational techniques and skills designed to enhance their performance on jazz piano. Study of harmonic progressions common to jazz will be included. Designed for intermediate to advanced piano students. Students are limited to a combined total of four enrollments in MUS 252A, 252B, and 252C. NR
MUS 252C
JAZZ PIANO III
1.5 Units 1 hour lecture 2 hours lab
Recommended Preparation: MUS 252B or demonstrated keyboard proficiency
Study techniques for playing solo piano and in a jazz combo including chord voicings and accompaniments for different jazz styles. Includes the study of early to modern styles of jazz piano. Designed for intermediate and advanced piano students. Students are limited to a combined total of four enrollments in MUS 252A, 252B, and 252C. NR

MUS 253
ADVANCED PIANO MUSIC OF HAYDN
2 Units 1 hour lecture 3 hours lab
Recommended Preparation: MUS 56 or two years of previous piano study
Dedicated solely to keyboard literature, students will study techniques for recognizing, analyzing, and performing the music of Franz Joseph Haydn at an advanced level. Special emphasis will be placed on touch, dynamics, articulation, tone quality, balance, phrasing, and ornamentation in Classical era pieces. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 255
PIANO COMPOSERS OF TODAY
1.5 Units 1 hour lecture 2 hours lab
Recommended Preparation: MUS 55B
Dedicated solely to keyboard literature, this intermediate course explores music of the various composers that are presently writing solos and duets. Students will expand technique, scale patterns, chord progressions, music analysis proficiency, expressive interpretation, improvisational skills and listening appreciation using these contemporary piano pieces. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 256
ADVANCED PIANO PEDAGOGY
3 Units 3 hours lecture 1 hour lab
Recommended Preparation: MUS 179 or four years of previous piano study
Designed to help the more experienced piano teachers refine their piano teaching techniques. Teachers will be expected to teach and perform music in the correct style. Teaching demonstrations with younger students will be required. Piano literature for the late-intermediate and early-advanced levels will be emphasized. Students are limited to a combined total of four enrollments in MUS 178, 179, and 256. NR

MUS 257
FAVORITE PIANO CLASSICS
1.5 Units 1 hour lecture 2 hours lab
Recommended Preparation: MUS 55B
Dedicated solely to keyboard literature, this intermediate course introduces the student to sight-reading, theory and analysis, technique and practice routines, coaching sessions, performing, and listening to enhance piano playing and an awareness of the elements of style and musicianship using the standard favorite solos in piano literature. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 260
BASIC GUITAR
1.5 Units 1 hour lecture 2 hours lab
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. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260. NR

N 160
PHARMACOLOGY FOR NURSING
2.5 Units 2.5 hours lecture
Transfers: CSU
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, contraindications 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. NR

N 161
LIFE CYCLE 2, GROWTH AND DEVELOPMENT
1.5 Units 1.5 hours lecture
Transfers: CSU
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. NR

N 162
SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING LAB
0.5 Unit 1.5 hours lab
Transfers: CSU
Limitation: LVN with 1 year experience or transfer/int'l RN
student. Complete within 3 semesters of entry into nursing program.
Corequisite: N 162
Allows students to practice nursing skills in a simulated clinical learning environment in preparation for competency testing. It includes practice and competency testing in the following nursing skills: injections, urinary catheterization, physical assessment, intravenous medication administration, medication math competency, and application of nursing process. NR

N 162
SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING
1 Unit 1 hour lecture
Transfers: CSU
Prerequisite: BIO 11, 12, 15 and ENG 1A
Limitation: LVN with 1 year experience or transfer/international RN student. Must be completed within 3 semesters of entry into nursing program.
Corequisite: N 162 lab
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 physical assessment, intravenous medication administration, medication math competency, and application of nursing process. NR

N 164
LVN TO RN CLINICAL LAB
1.5 Units 4.5 hours lab
Transfers: CSU
Prerequisite: N 162
Limitation: Current LVN License, American Heart BLS certified, IV certification, physical exam and vaccinations, TB test, malpractice insurance, background check

Recommended Preparation: N245
This clinical lab class allows prospective LVN-RN students to apply nursing process and specific nursing skills learned in N162 (Successful Transition to Professional Nursing) to the care of adult medical surgical patients. Students will be guided in completing pre-clinical work-ups, care maps, bedside nursing assessments, medication administration (including IV), and professional role transition. NR

N 165
LIFECYCLE 1, FUNDAMENTALS OF AGING
1.5 Units 1.5 hours lecture
Transfers: CSU
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. NR

N 170
NURSING PROCESS LAB
4.5 Units 13.5 hours lab
Transfers: CSU
Prerequisite: BIO 11, 12, 15, with a grade of "C" or better, completion of ENG 1A, and official admission to the nursing program
Corequisite: N 170 Lecture
Recommended Preparation: Completion of or concurrent enrollment in N 160 and 165 with a "C" or better
Provides clinical application of the theoretical base and nursing process at a beginning level. Focus is on the care of the adult medical-surgical, health 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, community health and the business of health, issues of professional practice, health teaching, diversity among US cultural groups, growth and development, geriatric nursing, disease process, disease prevention, restorative care, and end-of-life care are integrated. NR

N 171
MENTAL HEALTH NURSING
2 Units 2 hours lecture
Transfers: CSU
Prerequisite: N 170
Corequisite: N 171 lab
Recommended Preparation: PSYC 1
Theoretical base for application of the nursing process and biopsychosocial concepts of nursing care for individuals and families affected by emotional or mental disorders and disturbances in psychosocial functioning. Principles of psychiatric-mental health nursing including therapeutic communication, therapeutic approaches, health promotion, illness prevention,
psychopharmacology, health education, community health, human development, nutrition, advocacy, and legal and ethical standards. Integration of concepts of diversity and culturally competent care for cultural groups in the United States. Letter grade only. NR

N 172
MEDICAL-SURGICAL NURSING
3.5 Units 3.5 hours lecture
Transfers: CSU
Prerequisite: N 160, 165, 170, and 171, with grades of "C" or better
Corequisite: N 172 Lab
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. NR

N 173
NURSING CARE OF CHILDREN AND FAMILIES
1.5 Units 1.5 hours lecture
Transfers: CSU
Prerequisite: N 161 and 172 with a grade of "C" or better
Limitation: Official admission to the nursing program
Corequisite: N 173 Lab
Recommended Preparation: HSC 228 and N 245
Theory basis for application of the nursing process in providing nursing care for women, infants, family, and significant others. Emphasis is on family centered approach to nursing care, communication, 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. NR

N 174
WOMEN'S HEALTH NURSING
1.5 Units 1.5 hours lecture
Transfers: CSU
Prerequisite: N 173 with a grade of "C" or better
Corequisite: N 174 Lab
Theory basis for application of the nursing process in providing nursing care for women, infants, family, and significant others. Emphasis is on family centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation. 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.  NR

N 174
WOMEN’S HEALTH NURSING LAB
2 Units 6 hours lab
Transfers: CSU
Prerequisite: N 173 with grade of “C” or better
Corequisite: N 174
Integrates and applies 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.  NR

N 176
ADVANCED NURSING
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: N 174 with a “C” grade or better
Corequisite: N 176 Lab
Recommended Preparation: HSC 217 and 226
Provides the theoretical basis for the integration of the nursing process to care for acutely and critically ill adults. Emphasis is on 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, 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.  NR

N 202
SUCCESS STRATEGIES IN NURSING
1 Unit 1 hour lecture
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. Develops skills to proactively meet the student's learning needs.  NR

N 204
BEGINNING NURSING CONCEPTS
2 Units 2 hours lecture
Recommended Preparation: BIO 11 and 15
Introduces the health science student to the theoretical basis of nursing and healthcare, to provide a successful transition into the student nurse role. Students are provided opportunity to discuss the roles of the student nurse and the professional Registered Nurse. Emphasis is placed on the nursing role, including expectations of the nursing student, and opportunities to begin to explore principles of critical thinking and the nursing process. Students are exposed to the history of nursing, conceptual framework at Saddleback College, dimensional analysis, medical terminology, communication, nutrition, cultural awareness, nursing informatics and current issues in nursing ethical and legal issues.  NR

N 212
LABORATORY VALUES, INTERPRETATION AND APPLICATION
1.5 Units 1.5 hours lecture
Provides the theoretical basis for the interpretation and application of laboratory test results for adult medical-surgical clients with moderately complex diseases/disorders in acute care facilities. Emphasis is on laboratory results of moderately complex clients with respiratory, endocrine, renal, musculoskeletal, cardiac, neurological, gastrointestinal, and immune diseases/disorders. Principles of nutrition, drug therapy, health education, concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated.  NR

N 238
PERIOPERATIVE NURSING I
10 Units 3 hours lecture 21 hours lab
Limitation: Current or pending RN license, current CPR card, and current malpractice insurance
Perioperative nursing theory and practice necessary for entry level into the operating room. Focuses on utilization of the nursing process to provide care for clients undergoing surgical intervention. Provider approved by the California Board of Registered Nursing, Provider Number CEP60.  NR
N 245
I.V. THERAPY TECHNIQUES FOR NURSES
1.5 Units 1.5 hours lecture
Prerequisite: N 170
The focus of this course is to prepare the student for initiation, administration and maintenance of common intravenous therapies. Emphasis is placed on IV therapies common to adult patients in the medical-surgical setting. The course is appropriate for nursing students who have successfully completed N 170 and for current California licensed RNs needing a refresher. NR

N 263
SKILL LAB--BASIC
0.25 Unit 0.75 hour lab
Includes demonstration and practice of basic manual skills and procedures necessary for the student at the fundamental level. Offered as open-entry/open-exit and pass/no pass. NR

N 264
SKILL LAB--SPECIALTIES
0.25 Unit 0.75 hour lab
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 pass/no pass only. NR

N 265
SKILL LAB--ADVANCED
0.25 Unit 0.75 hour lab
Includes demonstration and practice of manual skills and procedures necessary for the student at the advanced medical-surgical level. Open-entry/open-exit. Offered pass/no pass only. NR

N 267
SKILL LAB--INTERMEDIATE
0.25 Unit 0.75 hour lab
Includes demonstration and practice of intermediate skills and procedures necessary for the student at the intermediate level. Offered as open-entry/open-exit and pass/no pass. NR

N 268
SKILL LAB REVIEW
0.25 Unit 0.75 hour lab
Includes demonstration and practice of the manual skills and procedures performed by registered nurses in various settings. Is geared towards the student who has learned the skill in a previous course and desires more practice or application of the skill in a new setting. NR

Paramedic

PM 220
PARAMEDIC THEORY
14 Units 14 hours lecture
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. NR

PM 230
PARAMEDIC CLINICAL EXPERIENCE
7.5 Units 23 hours lab
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
Skills assessment and hospital clinical requirements for students enrolled in the paramedic program. NR

PM 240
PARAMEDIC FIELD INTERNSHIP
12 Units 36 hours lab
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. NR

Persian

PRSN 1
ELEMENTARY PERSIAN
5 Units 5 hours lecture
Prerequisite: High school graduate or GED, current EMT-B certification background check, CPR, background check and official admission to the paramedic program.
Corequisite: PRSN 901
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). NR

PRSN 2
ELEMENTARY PERSIAN
5 Units 5 hours lecture
Prerequisite: High school graduate or GED, current EMT-B certification background check, CPR, background check and official admission to the paramedic program.
Corequisite: PRSN 902
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. NR

PRSN 3
INTERMEDIATE PERSIAN
5 Units 5 hours lecture
Prerequisite: High school graduate or GED, current EMT-B certification background check, CPR, background check and official admission to the paramedic program.
Corequisite: PRSN 903
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. NR

PRSN 4
INTERMEDIATE PERSIAN
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: PRSN 3 or four years of high school Persian
Corequisite: PRSN 904
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. NR

PRSN 901
PERSIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: PRSN 1
Requires concurrent enrollment in Persian 1. Enhances and provides practice in skills learned in Persian 1 course. NR

PRSN 902
PERSIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: PRSN 2
Requires concurrent enrollment in Elementary Persian 2. Enhances and provides practice in skills learned in Elementary Persian courses. NR

PRSN 903
PERSIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: PRSN 3
Requires concurrent enrollment in Persian 3. Enhances and provides practice in skills learned in Persian 3 course. NR

PRSN 904
PERSIAN LANGUAGE LAB
0.25 Unit 1 hour learning center
Corequisite: PRSN 4
Requires concurrent enrollment in Persian 4. Enhances and provides practice in skills learned in Persian 4 course. NR

Philosophy

PHIL 1
INTRODUCTION TO PHILOSOPHY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility 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. NR

PHIL 2
HISTORY OF ANCIENT PHILOSOPHY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
An historically oriented survey of the leading themes of philosophical interest within the Western tradition from the Pre-Socratic era through the Classical Periods of the Greek and Roman eras to the beginnings of the Christian period. Major figures of continuing importance to be studied may include Socrates, Plato, Aristotle, Epicurus, and St. Augustine. The student will become acquainted with the roots of Western civilization through studying the above writers' theories concerning human nature of thought, truth and rational justification. Selected topics may include political philosophies, ethics, the nature of beauty (aesthetics) and the nature of the gods. NR

PHIL 3
HISTORY OF MODERN PHILOSOPHY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
A survey of the major trends of philosophical thought from the 16th century to the 18th century. Major figures will include Descartes, Hume, and Kant. Investigates the evolving theories concerning man's nature, value systems, views of the social order, the nature of knowledge, the nature of mind, the uses of language, and the universe and our place within it. Students will be encouraged to formulate their own critically reflective points of view with regard to the theories put forth. NR

PHIL 4
WORLD RELIGIONS
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

PHIL 12
INTRODUCTION TO LOGIC
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 1A
An examination and analysis of reasoning employed in formal and informal arguments. Arguments will be formulated in class and evaluated for logical structure, validity, and soundness. Topics include the nature of arguments, the inductive-deductive distinction, fallacies, truth tables, and the proof method in sentential logic. NR

PHIL 14
PHILOSOPHY OF RELIGION
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PHIL 1
Introduces the student to the theoretical orientations, central concepts, basic problems, and
classical arguments of Western philosophy of religion. The course will systematically clarify and critically analyze a range of topical problems in the philosophy of religion. These include the concept of God, traditional arguments for the existence of God (e.g. the design argument), religious ethics, the problem of evil, and philosophical atheism. Students will engage in theoretical discussions, develop critical reasoning skills, and gain reflective insight into their personal philosophy of religion. NR

PHI 15
INTRODUCTION TO ETHICS
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

Phlebotomy

PHLB 240
PHLEBOTOMY
4 Units 4 hours lecture
Limitation: Official admission to the Medical Lab Technology program. 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. NR

PHLB 241
PHLEBOTOMY CERTIFICATION PREPARATION
2.5 Units 2.5 hours lecture
Provides basic and advanced didactic content required for California state certification for those with previous blood drawing experience. 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. NR

Photography

PHOT 25
HISTORY OF PHOTOGRAPHY
3 Units 3 hours lecture
Transfers: CSU, UC
A survey of the history of photography from its origins to the present. An examination of critical and philosophical approaches to the photographic medium. NR

PHOT 50
DIGITAL PHOTOGRAPHY I
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: PHOT 51
Recommended Preparation: PHOT 50
An introduction to digital imaging 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. NR

PHOT 51
INTRODUCTION TO PHOTOSHOP AND DIGITAL IMAGING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CIM 120 or basic operational knowledge of a computer
An introduction to digital imaging 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. NR

PHOT 55
DIGITAL PHOTOGRAPHY II
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: PHOT 50
Designed for further exploration of photographic imagery and techniques. Electronic flash, wide angle, and telephoto lenses are utilized. Continued refinement of photographic software, image management and workflow. Work is executed in color and black and white. NR

PHOT 152
INTERMEDIATE PHOTOSHOP
AND DIGITAL IMAGING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: PHOT 51
Recommended Preparation: PHOT 50
An intermediate-level course in photographic manipulation using Adobe Photoshop. Relevant technical and aesthetic issues will be covered. Scanning and inkjet printing included. NR
PHOT 154
ALTERNATIVE DIGITAL PROCESSES
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: PHOT 51
An intermediate level course that explores analog and digital photography based techniques used to create unique art works. The course covers digital printing on alternative media, image lifts, transfers, photographic multimedia and assemblage. The course also includes scanning of positive and negative images and 3D objects. Book and portfolio presentation are also covered. Macintosh lab environment utilizing Adobe software. NR

PHOT 156
DIGITAL PHOTOGRAPHY III
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: PHOT 55
Emphasis on creating visual imagery through advanced photographic techniques. Includes fundamentals of studio lighting, with tungsten and electronic flash systems. Continued refinement of photographic software techniques. NR

PHOT 157
STUDIO LIGHTING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: PHOT55
An introductory level course in photographic studio lighting intended for the advanced photographer. Covers lighting, equipment, and its application in a studio environment. Includes technical and aesthetic instruction with single and multiple light setups, lighting styles, and subject compositional concerns. Manually adjustable digital camera required. Macintosh lab, utilizing Adobe software. NR

PHOT 167
CREATIVE PHOTOGRAPHIC LIGHTING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: PHOT 55
Exploration of various lighting styles and techniques used in contemporary photography. Utilization of specialized lighting equipment both in and out of studio, with emphasis on event and location specific photographic lighting. NR

PHOT 190
SPECIAL PROBLEMS IN PHOTOGRAPHY
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: PHOT 50
Continued exploration of advanced photographic concepts and their development through various processes. Includes vintage and contemporary techniques. NR

PHOT 200
PORTRAITURE PHOTOGRAPHY
3 Units 2 hours lecture 3 hours lab
Prerequisite: PHOT 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. NR

PHOT 201
INTRODUCTION TO DIGITAL PHOTOGRAPHY
1.5 Units 1.5 hours lecture
An introductory-level course in digital photography intended for the complete novice or technically challenged. Covers basic camera controls, functions, and settings. Also includes digital image management, storage, archiving and printing techniques. Composition, light and portraiture are explored. Digital camera required, no lab. NR

Physics

PHYS 1A
PHYSICS WITH CALCULUS FOR CHEMISTRY AND LIFE SCIENCES I
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: MATH 3A or 3AH
The 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; Hookes' 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, laws of thermodynamics. This course is specifically intended for Biology and Chemistry majors; not intended for Engineering and Physics majors. NR

PHYS 1B
PHYSICS WITH CALCULUS FOR CHEMISTRY AND LIFE SCIENCES II
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: Phys 1A
A continuation course from Physics 1A. 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. This course is specifically intended for Biology and Chemistry majors; not intended for Engineering and Physics majors. NR
A calculus-based introduction to classical mechanics of solids and fluids. The main topics are kinematics, Newtonian mechanics including translational and rotational statics and dynamics, universal gravitation, work, energy, momentum, fluid statics, dynamics, and oscillations. Experiments in lab examine the basic laws of the mechanics of solids and fluids. Objectives include the use of common measuring instruments, the principles of data taking and analysis, and the writing of scientific reports. 

**PHYS 2B**

**INTRODUCTION TO PHYSICS**

5 Units 4 hours lecture 3 hours lab

Transfers: CSU, UC
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. NR

**PHYS 4A**

**GENERAL PHYSICS**

5 Units 4 hours lecture 3 hours lab

Transfers: CSU, UC
Prerequisite: MATH 3A or MATH 3AH
Recommended Preparation: CS 1A and PHYS 20 or high school physics

A calculus-based introduction to classical mechanics of solids and fluids. The main topics are kinematics, Newtonian mechanics including translational and rotational statics and dynamics, universal gravitation, work, energy, momentum, fluid statics, dynamics, and oscillations. Experiments in lab examine some of the basic phenomena in wave motion, thermodynamics, optics, and modern physics. The use of common, modern instruments, e.g. digital storage oscilloscopes, lasers, spectrometers, will be learned and practiced during the experiments. NR

**PHYS 4B**

**GENERAL PHYSICS**

5 Units 4 hours lecture 3 hours lab

Transfers: CSU, UC
Prerequisite: PHYS 4A & MATH 3B

A calculus-based introduction to classical electromagnetism. Topics include electrostatics, electric potential, capacitance, electrodynamics, direct and alternating current circuits, magnetic forces and fields, fields, electromagnetic induction, Maxwell's equations, and electromagnetic waves. Experiments in labs examine some of the basic phenomena in electromagnetism. Students are to become proficient in the use of common, modern measuring instruments e.g. digital and analog voltmeters, ammeters, ohmmeters and the oscilloscope. The principles of data taking and analysis, and the writing of scientific reports are emphasized. NR

**PHYS 4C**

**GENERAL PHYSICS**

5 Units 4 hours lecture 3 hours lab

Transfers: CSU, UC
Prerequisite: PHYS 4A & MATH 3B

A calculus-based introduction to the basic principles of wave motion, thermodynamics, optics and modern physics. Topics include classical wave theory, thermodynamics, wave-particle duality, reflection, refraction, interference, diffraction, optical elements and systems, applications of Schrodinger's equation, atomic structure, molecular structure, the quantum nature of solids, special and general relativity, nuclear physics, particle physics, and cosmology. Experiments in lab will examine some of the basic phenomena in wave motion, thermodynamics, optics, and modern physics. The use of common, modern instruments, e.g. digital storage oscilloscopes, lasers, spectrometers, will be learned and practiced during the experiments. NR

**Political Science**

**PS 1**

**AMERICAN GOVERNMENT**

3 Units 3 hours lecture

Transfers: CSU, UC

Survey of principles, personalities, problems, and issues of government. Emphasizes developing trends of government, including local, state, and federal branches. Credit may be earned in either PS 1 or PS 1H, but not both. NR

**PS 1H**

**HONORS AMERICAN GOVERNMENT**

3 Units 3 hours lecture

Transfers: CSU, UC

Survey of principles, personalities, problems, and issues of government. Emphasizes developing trends of government, including local, state, and federal branches. The honors course emphasizes a multicultural approach to the study of American politics and is enriched by limited
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. NR

PS 14
INTERNATIONAL RELATIONS
3 Units 3 hours lecture
Transfers: CSU, UC
An examination of theory in international relations and a study of world trends with emphasis on conflict resolution as it relates to international problems. NR

PS 80
INTRODUCTION TO CONTEMPORARY AFRICA
3 Units 3 hours lecture
Transfers: CSU, UC
This course challenges stereotypes and misperceptions about Africa and its history. It focuses on the political achievements of African kingdoms and empires, economic innovation and adaptation, resilience in the face of European incursions in the forms of the slave trade and colonial rule, the relationship between Africa and the rest of the world, responses to contemporary challenges, and the ways in which Africans created for themselves vibrant modern cultures, states and societies. Also listed as HIST 80. Credit given in either area, not both. NR

Portuguese

PORT 1
ELEMENTARY PORTUGUESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: PORT 901
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in colloquial Portuguese. 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 Portuguese. NR

PORT 2
ELEMENTARY PORTUGUESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: PORT 1 or two years of high school Portuguese
Corequisite: PORT 902
Designed to further the fundamentals of communicative competence in daily spoken Portuguese. 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. NR

PORT 3
INTERMEDIATE PORTUGUESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: PORT 2 or three years of high school Portuguese
Corequisite: PORT 903
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Portuguese speaking cultures. NR

PORT 4
INTERMEDIATE PORTUGUESE
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: PORT 3 or four years of high school Portuguese
Corequisite: PORT 904
Emphasizes fluency in speaking, reading, writing, and comprehension of Portuguese. Includes selected readings and discussions from the basic four genres in Portuguese speaking countries, literature, culture, and customs. NR

PORT 21
INTRODUCTION TO PORTUGUESE AND BRAZILIAN CULTURE
3 Units 3 hours lecture
Transfers: CSU, UC
A lecture and discussion course covering a variety of aspects of Portuguese and Brazilian culture: geography, history, literature, art, music, philosophy, and customs. Conducted in English. No prior study of Portuguese language or
Portuguese and/or Brazilian culture required.  

**PORT 901**  
PORTUGUESE LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: PORT 1  
Requires concurrent enrollment in Portuguese 1. Enhances and provides practice in skills learned in Portuguese 1 course.  

**PORT 902**  
PORTUGUESE LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: PORT 2  
Requires concurrent enrollment in Portuguese 2. Enhances and provides practice in skills learned in Portuguese 2 course.  

**PORT 903**  
PORTUGUESE LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: PORT 3  
Requires concurrent enrollment in Portuguese 3. Enhances and provides practice in skills learned in Portuguese 3 course.  

**PORT 904**  
PORTUGUESE LANGUAGE LAB  
0.25 Unit 1 hour learning center  
Corequisite: PORT 4  
Requires concurrent enrollment in Portuguese 4. Enhances and provides practice in skills learned in Portuguese 4 course.  

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**Psychology**

**PSYC 1**  
INTRODUCTION TO PSYCHOLOGY  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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 psychology, and development. Emphasis will be placed on the science of psychology and the ways psychological science has impacted our understanding of human nature as well as animal and human behavior.  

**PSYC 1H**  
HONORS INTRODUCTION TO PSYCHOLOGY  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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 psychology, and development. Emphasis will be placed on the science of psychology and the ways psychological science has impacted our understanding of human nature as well as animal and human behavior. The Honors course is enriched by a smaller class size, seminar format, and the accomplishment of a research project involving scholarly sources and first-hand research. Credit may be earned for either PSYC 1 or 1H, but not both. Letter grade only.  

**PSYC 2**  
RESEARCH METHODS IN PSYCHOLOGY  
3 Units 2 hours lecture 3 hours lab  
Transfers: CSU, UC  
Prerequisite: PSYC 1 and PSYC 44 or MATH 10  
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 2H**  
HONORS RESEARCH METHODS IN PSYCHOLOGY  
3 Units 2 hours lecture 3 hours lab  
Transfers: CSU, UC  
Prerequisite: PSYC 1 and either PSYC 44 or MATH 10  
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. The honors course is enriched by increased use of scholarly sources and the development and presentation of original research in oral or poster form at a conference. Letter grade only.  

**PSYC 3**  
BIOLOGICAL PSYCHOLOGY  
4 Units 4 hours lecture  
Transfers: CSU, UC  
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**  
INTRODUCTION TO COGNITIVE PSYCHOLOGY  
3 Units 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation: PSYC 1  
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.  

**PSYC 5**  
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY  
3 Units 3 hours lecture  
Transfers: CSU, UC  
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
DEVELOPMENTAL PSYCHOLOGY -
CHILDHOOD THROUGH
ADOLESCENCE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1
Focuses on the major theoretical viewpoints and research approaches in the field of developmental psychology. Covers developmental stages of children from conception through adolescence focusing on children's social, emotional, cognitive, and physical development. NR

PSYC 16
INTRODUCTION TO CROSS-
CULTURAL PSYCHOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

PSYC 21
THE PSYCHOLOGY OF WOMEN
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to the psychology of women. Topics include gender similarities and differences and gender roles, including psychological, biological, and social origins. 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. NR

PSYC 30
SOCIAL PSYCHOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1 or SOC 1
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. NR

PSYC 33
PSYCHOLOGY OF ADJUSTMENT
3 Units 3 hours lecture
Transfers: CSU, UC
Study of the processes involved in adjustment of individuals to their personal and social environments; focuses on different psychological perspectives and theoretical foundations and how these are applied across a person’s life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized. NR

PSYC 37
ABNORMAL BEHAVIOR
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: PSYC 1
An introduction to 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. NR

PSYC 44
STATISTICS FOR THE
BEHAVIORAL SCIENCES
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
Introduces psychology and behavioral science majors to descriptive and inferential statistical methods. Knowledge of these methods is essential to the understanding, interpretation, and performance of scientific research. Topics covered include probability theory, hypothesis testing, correlation, analysis of variance, the graphical representation of data, basic research design, and the use of computer software to perform statistical analyses. (formerly PSYC 144) NR

PSYC 125
PSYCHOLOGY OF AGING
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: PSYC 1
Focuses on old age and introduces the theoretical and methodological issues in the field of gerontology, while dispelling the myths that often accompany older adulthood. Throughout the course, the psychological, physiological, and social changes that often accompany older adults will be discussed. Social issues that older adults often face will be addressed, while discussing the societal implications of an aging population. Death and dying will also be covered. NR

PSYC 140
INTRODUCTION TO PSYCH AS A
MAJOR AND PROFESSION
1.5 Units 1.5 hours lecture
Transfers: CSU
Recommended Preparation: PSYC 1
Introduces students to the broad major of psychology and its related professions. Focus is on the many possible types of psychologists and activities performed by these individuals. The course is designed especially for students at the sophomore level who have completed an introductory psychology course and are seeking further information before deciding upon psychology as a potential major or career field. NR

Real Estate
RE 170
REAL ESTATE PRINCIPLES
3 Units 3 hours lecture
Transfers: CSU
The fundamental real estate course covering the basic laws and principles of California real estate. Required by the CA BRE (Bureau of Real Estate) for those preparing for the state salesperson's exam, and serves as an elective for those preparing for the state broker's exam. For
professionals, consumers, and investors.  NR

**RE 172**

**REAL ESTATE PRACTICE**

*3 Units 3 hours lecture*

 Transfers: CSU

A foundational real estate course covering day-to-day operations in real estate sales and brokerage, including: Listing, prospecting, advertising, financing, sales techniques, and escrow. Required course for Salesperson's and Broker's license by CA BRE (Bureau of Real Estate). For professionals, consumers, and investors.  NR

**RE 174**

**LEGAL ASPECTS OF REAL ESTATE**

*3 Units 3 hours lecture*

 Transfers: CSU

A study of California real estate law, including consumer rights, agency, and contracts, 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. Letter grade of "C" or above applies toward the requirements for the broker's examination. For consumers, investors, and professionals.  NR

**RE 175**

**REAL ESTATE FINANCE**

*3 Units 3 hours lecture*

 Transfers: CSU

Analysis of real estate financing, including lending policies and problems in financing transactions in residential properties. Methods of financing properties are emphasized. Applies toward state's elective educational requirements for the Real Estate Salesperson's License. Applies toward state's core educational requirements for the broker's examination. Applies toward Bureau of Real Estate (BRE) basic education. For professionals, consumers and investors.  NR

**RE 176A**

**REAL ESTATE APPRAISAL I**

*3 Units 3 hours lecture*

 Transfers: CSU

Introduction to residential real estate appraisal. Applies toward Bureau of Real Estate (BRE) State's elective educational requirements for the Real Estate salesperson's exam. Applies toward BRE state core educational requirements for the broker's exam. Applies toward 50 hours of Bureau of Real Estate Appraisers (BREA) credit. For consumers, professionals, and investors.  NR

**RE 176B**

**REAL ESTATE APPRAISAL II**

*3 Units 3 hours lecture*

 Transfers: CSU

Recommended Preparation: RE 176A

An advanced course in real estate appraisal with emphasis on investment-property appraisal. Includes the appraisal of certain types of apartment properties. Concepts of loan appraisal and various methods of appraisal are delineated and are included in a student project. Applies toward state's core educational requirements for the broker's examination and toward basic and continuing educational hours of Bureau of Real Estate Appraisers (BREA) credit.  NR

**RE 176C**

**REAL ESTATE APPRAISAL III**

**MARKET ANALYSIS AND STUDIES**

*3 Units 3 hours lecture*

 Transfers: CSU

Recommended Preparation: 176B

An advanced course in real estate appraisal to evaluate the productive attributes of parcels of real estate as they relate to the demand for a particular use and supply of competitive properties within a specified market. The student will learn the process of property analysis through the study of property productivity, supply and demand factors, and comparative analysis. Focus is placed on the role of market analysis and highest and best use analysis in decision making and evaluation. Counts toward 50 hrs BREA.  NR

**RE 178**

**REAL ESTATE ECONOMICS**

*3 Units 3 hours lecture*

 Transfers: CSU

Covers the impact of national, regional, and local trends on real estate values. Includes the role of the government in the economy and how that role affects real estate issues, cycles, business fluctuations, credit markets, real property taxation concepts, land use controls, 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 exam. For consumers, professionals, and investors.  NR

**RE 190**

**ESCOND**

*3 Units 3 hours lecture*

 Transfers: CSU

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. For consumers, investors, and professionals.  NR

**RE 195**

**PROPERTY MANAGEMENT**

*3 Units 3 hours lecture*

 Transfers: CSU

Recommended Preparation: RE 170

Professional management of residential, commercial, retail, and industrial properties: organization,
staffing, marketing, accounting, operations, maintenance, landlord/tenant relations. Addresses antitrust, disclosure, tenant screening, antireal discrimination, employment, land use, and environmental laws and compliance therewith. Excellent preparation for the real estate practitioner wishing to specialize in property management. Applies toward California's elective educational requirements for the Real Estate Salesperson License and Broker license.  

RE 200  
UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP)  
1.5 Units 1.5 hours lecture  
A 15 hour National Uniform Standards of Professional Appraisal Practice (USPAP) course developed by the Appraisers Qualification Board (AQB) of The Appraisal Foundation. Emphasizes professional appraisal standards and the basic rules of competent performance and ethical behavior required for appraisers. Taught by an experienced AQB Certified USPAP Instructor/Certified Real Estate Appraiser. Approved for 15 hours of pre-licensing appraisal education by the CA Bureau of Real Estate Appraisers (BREA) and for 14 Hours of continuing education by the BREA. Cannot be used as a substitute for the 7-Hour USPAP Update course. Satisfies the appraisal education requirements for the Trainee License from the BREA upon completion of RE 176A/B/C.  

RE 202  
COMPUTER APPLICATIONS IN REAL ESTATE  
3 Units 3 hours lecture  
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 applications, social media marketing technologies, web sites, email, mobile devices, MLS, digital cameras, virtual tours, WinForms, and other current technologies. Applies toward CA Bureau of Real Estate (BREA) Salesperson's and Broker's exam elective requirements. For consumers, professionals, and investors.  

RE 250  
REAL ESTATE LICENCE PREPARATION  
3 Units 3 hours lecture  
Recommended Preparation: For Sales License: RE 170, 172 and one Real Estate elective. For Broker License: The eight broker courses. See www.bre.ca.gov  
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 California real estate salesperson's or broker's license examination.  

RE 280  
MORTGAGE LOAN BROKERING AND LENDING  
3 Units 3 hours lecture  
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 Broker's licenses. For consumers, professionals, and investors.  

SL 1  
AMERICAN SIGN LANGUAGE I  
4 Units 4 hours lecture  
Transfers: CSU, UC  
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  
AMERICAN SIGN LANGUAGE II  
4 Units 4 hours lecture  
Transfers: CSU, UC  
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  
AMERICAN SIGN LANGUAGE III  
4 Units 4 hours lecture  
Transfers: CSU, UC  
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  
AMERICAN SIGN LANGUAGE IV  
4 Units 4 hours lecture  
Transfers: CSU, UC  
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.  

Sign Language  

SL 1  
AMERICAN SIGN LANGUAGE I  
4 Units 4 hours lecture  
Transfers: CSU, UC  
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
SL 101
DEAF CULTURE AND ITS HISTORY
3 Units 3 hours lecture
Transfers: CSU
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 Deaf community. NR

SL 140
SIGN LANGUAGE SKILLS LAB BEGINNING
0.5 Unit 1.5 hours lab
Transfers: CSU
Prerequisite: SL 1
Review of American Sign Language fundamentals including expressive and receptive skills building and beginning grammatical structure. NR

SL 141
SIGN LANGUAGE SKILLS LAB INTERMEDIATE
0.5 Unit 1.5 hours lab
Transfers: CSU
Prerequisite: SL 2
Review of American Sign Language fundamentals including expressive and receptive skill building and intermediate grammatical structure. NR

SL 142
SIGN LANGUAGE SKILLS LAB ADVANCED
0.5 Unit 1.5 hours lab
Transfers: CSU
Prerequisite: SL 3
Review of American Sign Language fundamentals including expressive and receptive skill building and advanced grammatical structure. NR

SL 201
FINGERSPELLING AND NUMBERS
1 Unit 3 hours lab
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. NR

Sociology

SOC 1
INTRODUCTION TO SOCIOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to the scientific study of society and human behavior, including core concepts and theories. Topics explored through the sociological perspective include: social institutions, culture, human behavior and relationships, social forces, socialization, social structure, social class, social inequality, gender, and social change. NR

SOC 2
SOCIAL PROBLEMS
3 Units 3 hours lecture
Transfers: CSU, UC
Emphasis on the extent, causes, and consequences of a number of social problems including: poverty, juvenile delinquency, family disorganization, gender inequality, and race relations. Course includes a Service Learning requirement. NR

SOC 6
INTRODUCTION TO ASIAN CULTURES IN THE UNITED STATES
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

SOC 10
INTRODUCTION TO MARRIAGE AND THE FAMILY
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to the scientific study of marriage and the family, including core concepts and theories. Topics include family as a social institution, kinship systems, gender, social class, race and ethnicity, partner selection, marital roles, sexuality and sexual norms, work, parenting and childrearing, older adults in the family, family violence, divorce, remarriage, stepfamilies, and social policies. NR

SOC 15
SOCIALIZATION OF THE CHILD
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SOC 1
The sociological study of the main institutions which socialize the child, such as the family, peer groups, education, child care, community, and the media. Other topics include: social theory, parenting, culture, religion, economics, politics, and social change. NR

SOC 20
ETHNIC CULTURES OF THE UNITED STATES
3 Units 3 hours lecture
Transfers: CSU, UC
An overview of major theories and issues concerning the historical and contemporary experience of selected racial and ethnic groups in the United States. Topics include the origins and development of racial ideologies; the nature, causes, and consequences of racism, stereotypes, prejudice, and discrimination; and affirmative action and immigration. Also listed as HIST 20. Credit given in either area, not both. NR

SOC 21
WOMEN IN CONTEMPORARY SOCIETY
3 Units 3 hours lecture
Transfers: CSU, UC
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, sexuality and intimate relationships, the family, self-image, health and reproduction, crime and deviance, work, religion, politics, education, the media, cultural diversity, feminism, and social reform. NR
SOC 25
SOCIAL STRATIFICATION
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

SOC 30
SOCIAL PSYCHOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1 or SOC 1
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. NR

SOC 125
SOCIOLGY OF AGING
3 Units 3 hours lecture
Transfers: CSU
Examines age as a social construct and aging as a social process. Course explores the effects of social institutions and social norms on the aging individuals. Topics covered are: the study of aging, ageism, sociological theories/perspectives of aging, current social research on issues of aging, views of aging in other societies past and present, demographics of the aging population, the life course, race and ethnicity, the healthcare system, retirement and work, gender inequalities, housing and transportation, recreation and leisure, family life, and politics and social policies. Particular attention to the sociological perspective of the aging process will be investigated. Course includes a service learning requirement. NR

SOC 126
DEATH AND DYING
3 Units 3 hours lecture
Transfers: CSU
Provides a background on historical and contemporary perspectives on death and dying. Course focuses on the social, political, and cultural and cross-cultural meanings and practices regarding death in the United States. Topics include: attitudes, beliefs, and meanings of death and dying through the life course, the American experience of death, sociological theoretical perspectives, the dying process, living with dying, the American Health Care System, hospice care, end-of-life decisions, suicide, types of death, euthanasia and biomedical issues, bereavement, grief, mourning, the funeral process, legal and business aspects of dying, cultural norms, and dealing with the death of a loved one. NR

SOC 180
INTRODUCTION TO GERONTOLOGY
3 Units 3 hours lecture
Transfers: CSU
Provides an introduction to the interdisciplinary field of gerontology through biological, psychological, and sociological perspectives. The area of focus is on the adult years of the life span. Topics include: the aging process, growth of the older population, cultural differences, consequences of physical aging, health and well-being, mental health, sexuality, social support networks, caregiving, social interactions, role changes, death and dying, social policies affecting older adults, and careers options in the field. NR

Spanish
SPAN 1
ELEMENTARY SPANISH
5 Units 5 hours lecture
Transfers: CSU, UC
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. NR

SPAN 2
ELEMENTARY SPANISH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 1 or two years of high school Spanish
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. Continues the familiarization with customs and cultural achievements begun in the previous semester. NR

SPAN 3
INTERMEDIATE SPANISH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or four years of high school Spanish
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Includes selected readings and discussions from poetry, short stories, and essays in Hispanic, and Hispanic-American literature, culture and customs. NR

SPAN 4
INTERMEDIATE SPANISH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 3 or four years of high school Spanish
Emphasizes fluency in speaking, reading, writing, and comprehension of Spanish. Includes selected readings and discussions from the
basiíc four genres in Hispanic and Hispanic-American literature, culture, and customs. NR

SPAN 6
INTERMEDIATE SPANISH
GRAMMAR AND COMPOSITION
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 4
Brief review and intensive practice of fundamentals of Spanish grammar followed by study and application of advanced grammatical concepts.

SPAN 10
INTERMEDIATE CONVERSATIONAL SPANISH
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or four years of high school Spanish
Described to develop fluency in Spanish. The emphasis is on both formal and informal expression and conversation in Spanish. NR

SPAN 20A
CIVILIZATION OF SPAIN THROUGH 1898
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or four 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.

SPAN 20B
CIVILIZATION OF SPAIN 1898 TO PRESENT
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or four 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.

SPAN 21A
CIVILIZATION OF LATIN AMERICA THROUGH 1900
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or four 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.

SPAN 21B
CIVILIZATION OF LATIN AMERICA 1900-PRESENT
3 Units 3 hours lecture
Transfers: CSU, UC
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.

SPAN 21C
HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES
3 Units 3 hours lecture
Transfers: CSU, UC
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.

Special Services

SPS 115
ALTERNATIVE LEARNING STRATEGIES
3 Units 3 hours lecture
Transfers: CSU
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. NR

SPS 205
COLLEGE AWARENESS AND SUCCESS STRATEGIES
2 Units 2 hours lecture
Designed to help students with disabilities achieve goals and improve self-understanding and self-advocacy/communication skills.
Includes college success strategies, legal rights and responsibilities, ethics, making wise choices, creating academic plans and utilizing available supportive resources. NR

SPS 300
EDUCATIONAL PLANNING, ASSESSMENT, AND ORIENTATION
0 Unit 0.5 hour lab
Recommended Preparation:
Conference with DSPS 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. NR

SPS 310
MEMORY AND ATTENTION SKILLS
3 Units 3 hours lecture
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.

SPS 315
LEARNING DEVELOPMENT PRACTICUM
1.5 Units 3 hours lab
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. This course is offered on a pass/no-pass basis.  NR

SPS 316
SUCCESS STRATEGIES FOR BASIC MATHMATICS
1 Unit 1 hour lecture
Designed for those needing support and instruction in test taking, study skills, organization, critical thinking and self-management while enrolled in a basic or developmental arithmetic course. Awareness of anxiety and stress management techniques will be discussed in addition to specific learning strategies (note-taking, reading a text book, test-taking, etc) as they apply to mathematics. Provides support in test taking, study skills, organization, critical thinking and self-management while enrolled in basic/developmental math. Awareness of anxiety and stress management techniques will be discussed in addition to specific learning strategies (note-taking, reading a text book, test-taking) as they apply to situations commonly occurring in a basic arithmetic course.  NR

SPS 325
BASIC COMPUTATIONAL SKILLS
3 Units 3 hours lecture
Designed for students with learning disabilities who need to review the basics of mathematical computation. Topics include learning and compensatory strategies such as taking quality notes in a mathematics course, managing stress and anxiety, and employing good study skills. Learning and compensatory strategies are taught in relation to basic computation, including: whole numbers, fractions, decimals, percents, ratios and proportions.  NR

SPS 330
WRITING DEVELOPMENT PRACTIUM
3 Units 3 hours lecture
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. This course is offered on a pass/no-pass basis.  NR

SPS 340
VOCABULARY STRUCTURE FOR READING AND SPELLING
3 Units 3 hours lecture
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. This course is offered on a pass/no-pass basis.  NR

SPS 360
ADAPTED COMPUTER ACCESS LAB
1 Unit 3 hours lab
Provides students with physical access technology with supervision. This is an open-entry/open-exit class. This course is offered on a pass/no-pass basis.  NR

Speech

SP 1
COMMUNICATION FUNDAMENTALS
3 Units 3 hours lecture
Transfers: CSU, UC
Understand and use the processes of communication in making personal and social decisions in everyday life, including an understanding of problems and propositions; organization and development of ideas; evidence; methods of research, criticism and evaluation. Presentation of ideas in informative and persuasive contexts. Platform speaking experience will be required.  NR

SP 2
PERSUASION
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SP 1 and/or ENG 1A/1AH with a grade of "C" or better
Examines the components of persuasive messages in advertising, politics and sales. Analyze persuasive themes, such as: 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.  NR

SP 3
ARGUMENTATION AND DEBATE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SP 1 and/or ENG 1A/1AH 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.  NR

SP 5
INTERPERSONAL COMMUNICATION
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR

SP 8
GENDER COMMUNICATION
3 Units 3 hours lecture
Transfers: CSU, UC
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.  NR
SP 20
INTERCULTURAL COMMUNICATION
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SP 30
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. NR

SP 30
INTRODUCTION TO ORAL INTERPRETATION
3 Units 3 hours lecture
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in SP 30 and SP 32. NR

SP 32
INTERPRETERS’ THEATRE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SP 30
Stressing the techniques of script preparation, direction, and staging of literature. Coursework will culminate in a student-performed and directed Interpreters’ Theatre. Students are limited to a combined total of four enrollments in SP 30 and SP 32. NR

SP 106
FORENSICS ACTIVITY
1 Unit 1 hour lecture 1 hour lab
2 Units 1 hour lecture 3 hours lab
3 Units 1 hour lecture 6 hours lab
Transfers: CSU
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

Theatre Arts

TA 1
FUNDAMENTALS OF ACTING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Establishes a working vocabulary and begins exploring basic skills of the acting process. Through theatre games and improvisations, the actor explores imagination as the actor’s primary resource and the basic approach to text through action. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR

TA 2
SCENE STUDY I
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: TA 1
Beginning scene study with an emphasis on truthful connection to partner and self, deep emotional honesty, introducing objectives and given circumstances in working toward a method of approach. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR

TA 3
SCENE STUDY II
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: TA 2
Further study in the application of given circumstances, objective, and action to a text and the development of a technique to make text based acting choices. Performing scenes from the plays of Ibsen and Chekhov is stressed. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR

TA 4
ACTING STYLES I
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: TA 3

Primarily using the works of Shakespeare, this course focuses on the acting demands of heightened poetic language. Verse analysis, physical games, and how to master classical dialog. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR

TA 10
MUSICAL THEATRE TECHNIQUES
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Principles and techniques of the various performance methods and styles involved in performing for the musical theatre. Solo and choral singing, and acting will be taught. Students are limited to a combined total of four enrollments in TA 10, 210, and 212. NR

TA 11
STAGE MOVEMENT
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
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. Students are limited to a combined total of four enrollments in TA 11, 35, 136, and 290. NR

TA 12
DIRECTING
3 Units 3 hours lecture
Transfers: CSU, UC
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. NR

TA 15
REHEARSAL AND PERFORMANCE: DRAMA
2 Units 6 hours lab
Transfers: CSU, UC
Limitation: Audition or interview
Emphasizes the preparation of serious dramatic productions for public performance, including acting, technical, and production management. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125.  

TA 16  
REHEARSAL AND PERFORMANCE: COMEDY  
2 Units 6 hours lab  
Transfers: CSU, UC  
Limitation: Audition or interview

Emphasizes the preparation of comic productions for public performance, including acting, technical, and production management. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125.  

TA 17  
REHEARSAL AND PERFORMANCE: MIXED GENRES  
2 Units 6 hours lab  
Transfers: CSU, UC  
Limitation: Audition or interview

Emphasizes the preparation of comic productions of mixed genres for public performance including acting, technical, and production management. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125.  

TA 18  
REHEARSAL AND PERFORMANCE: DANCE  
1 Unit 3 hours lab  
Transfers: CSU, UC  
Limitation: Audition or interview

Emphasizes the preparation of students for public performance within a musical theatre environment. Students will learn dance styles and routines appropriate to the period of current production. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125.  

TA 19  
REHEARSAL AND PERFORMANCE: MUSICAL THEATRE  
2 Units 6 hours lab  
Transfers: CSU, UC  
Limitation: Audition where student will demonstrate and performance and production practices and skills.

Provides instruction and supervised participation in musical theatre rehearsal and performance presented fully on stage. All productions are entered into Kennedy Center American College Theater Festival competitions. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125.  

TA 20  
THEATRE APPRECIATION  
3 Units 3 hours lecture  
Transfers: CSU, UC

Focuses on the relationship of theatre to various cultures throughout history and on the contributions of significant individual artists. Introduces students to elements of the production process, including playwriting, acting, directing, design, and criticism. Students will survey different periods, styles, and genres of theatre through play reading, discussion, films, and viewing and critiquing live theatre. Requires attendance of theatre productions.  

TA 25  
THEATRE HISTORY: PRIMITIVE TO RENAISSANCE  
3 Units 3 hours lecture  
Transfers: CSU, UC

The study of the history of theatre from the Origins of Theatre through the 17th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance.  

TA 26  
THEATRE HISTORY: RENAISSANCE TO CONTEMPORARY  
3 Units 3 hours lecture  
Transfers: CSU, UC

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 35  
VOICE AND DICTION  
3 Units 3 hours lecture  
Transfers: CSU, UC

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. Begin to work on developing a dialect and heightened text. Students are limited to a combined total of four enrollments in TA 11, 35, 136, and 290.  

TA 43  
STAGE MAKE-UP  
3 Units 2 hours lecture 3 hours lab  
Transfers: CSU, UC

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.  

NR
TA 108
AUDITION TECHNIQUES
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Emphasizes the process of auditions for both theatre and film/TV. Includes cold readings, script analysis, interviews and unrehearsed scenes, resume writing techniques, interview techniques and casting instruction for the actor. Students are limited to a combined total of four enrollments in TA 108, 211, and 214. NR

TA 110
CHICANA/O LATINA/O THEATRE
3 Units 3 hours lecture
Transfers: CSU
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. NR

TA 113
REHEARSAL AND PERFORMANCE: CHILDREN’S THEATRE
2 Units 6 hours lab
Transfers: CSU
Limitation: Audition or interview
Emphasizes the preparation of play production for the child audience for public performance. This course is open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. R-E-3

TA 125
REHEARSAL AND PERFORMANCE: NEW WORKS - MUSICAL
2 Units 6 hours lab
Transfers: CSU
Limitation: Audition Student required to demonstrate prior knowledge and training in Musical Theatre performance.
Recommended Preparation: TA 1 and 10
Emphasizes the preparation of new work for the musical theatre. Includes character analysis, script analysis, and development of a new work or previously unpublished work. Class will culminate in a public ‘staged reading’ of a new theatrical work. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. NR

TA 128
THEATRE, PERFORMANCE, AND CULTURE
3 Units 3 hours lecture
Transfers: CSU
Theatre and cinema from a historical and cultural perspective. Explores how the theatre and performance of a culture are influenced by, and reflective of, the historical and cultural attributes of that culture. Performance may include, but is not limited to theatre, film, and media. NR

TA 136
ADVANCED VOICE AND DICTION
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: TA 35
Recommended Preparation: TA 1
A continuation of the work begun in Voice and Diction with application to classical text and accents. Continue to deepen understanding of vocal production and acquire additional tools for gaining mastery of the physical means of voice production. Begin putting the tools of IPA and diction work begun in TA 35 to more complex use in poems and classical literature. Practice exercises for centering the breath and body, locating and releasing tension, exploring pitch, tone, and range, developing a free and responsive voice. Solidify understanding of the International Phonetic Alphabet and use it for working with both classical texts and poems, as well as development of at least one foreign and one regional American accent. Students are limited to a combined total of four enrollments in TA 11, 35, 136, and 290. NR

TA 210
SCENE STUDY FOR AMERICAN MUSICAL THEATRE
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: TA 10
Concentrates on scene study, characterization, song repertory, and ensemble performance in American musical theatre. Students are limited to a combined total of four enrollments in TA 10, 210, and 212. NR

TA 211
MUSICAL THEATRE AUDITION TECHNIQUES
3 Units 2 hours lecture 3 hours lab
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. Students are limited to a combined total of four enrollments in TA 108, 211, and 214. NR

TA 212
MUSICAL THEATRE MOVEMENT AND DANCE
3 Units 2 hours lecture 3 hours lab
Course provides students with the understanding and practical knowledge of musical theatre movement and dance. Emphasis is on the understanding and execution of the fundamental skills basic to musical theatre and musical theatre dance. Students are limited to a combined total of four enrollments in TA 10, 210, and 212. NR

TA 213
PUPPET-MAKING AND PERFORMANCE
1 Unit 3 hours lab
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,
TA 214
AUDITION AND INTERVIEW
TECHNIQUES FOR KCACTF AND
URTA
1 Unit 3 hours lab
Develops technical skills, acting skills and interview skills specific to
ta 250, 251, 252, 253, 254, and
TA 214
URTA
TA 250, 251, 252, 253, 254, and 255.
NR
Musical theatre training as a cast
Specializes in theatre production,
TA 250, 251, 252, 253, 254, and
2
NR
TA 251
SUMMER CONSERVATORY
MUSICAL THEATRE
2 Units 6 hours lab
Limitation: By audition only
Specializing in musical theatre training as a cast member for a theatrical
production originally written and performed from 1943-1966. Students are
limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR
TA 252
SUMMER CONSERVATORY EARLY
20TH CENTURY MUSICAL
THEATRE
2 Units 6 hours lab
Limitation: By audition only
Musical theatre training as a cast member for a theatrical production
originally written and performed from 1900-1942. Students are limited to a
combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR
TA 253
SUMMER CONSERVATORY MID
20TH CENTURY MUSICAL
THEATRE
2 Units 6 hours lab
Limitation: By audition only
Specializes in musical theatre training as a cast member for a theatrical
production originally written and performed from 1967-1999. Students are
limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR
TA 254
SUMMER CONSERVATORY LATE
20TH CENTURY MUSICAL
THEATRE
2 Units 6 hours lab
Limitation: By audition only
Specializing in musical theatre training as a cast member for a theatrical
production originally written and performed from 1943-1966. Students are
limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR
TA 255
SUMMER CONSERVATORY
CONTEMPORARY MUSICAL
THEATRE
2 Units 6 hours lab
Limitation: By audition only
Musical theatre training as a cast member for a theatrical production
originally written and performed after 2000. Students are limited to a
combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR
TA 290
ACTING FOR TELEVISION AND
FILM
3 Units 2 hours lecture 3 hours
lab
Principles and techniques of various performance methods involved in
acting for television and motion pictures. Directed exercises and
dramatic scenes. Students are limited to a combined total of four
enrollments in TA 11, 35, 136, and 290. NR
Travel and Tourism
TOUR 250
INTRODUCTION TO TRAVEL &
TOURISM
3 Units 3 hours lecture
Introduction to the basics of the travel industry and its various
avenues for an exciting career. Discussion of the methods and
practices for locating and understanding both domestic and
international itineraries and an understanding of travel industry
documents such as industry regulations, airline and baggage fees,
tariffs and fares, routes, internet
options and career opportunities in all
aspects of the travel industry to
include hotels, car rentals, rail service
and cruises. Consultant, sales,
corporate, leisure, business, meeting
planning and hospitality will be
presented as potential job titles. NR
TOUR 252
WORLD DESTINATIONS AND
RESORTS--WESTERN
HEMISPHERE
3 Units 3 hours lecture
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
contiguous United States, Alaska,
Hawaii, Mexico, Canada, the
Caribbean, the Bahamas and
Bermuda Islands, and Central and
South America. NR
TOUR 253
WORLD DESTINATIONS-EUROPE
3 Units 3 hours lecture
Study sightseeing highlights, tourist
attractions, currency, customs and
local transportation in major
destinations within the most visited
countries of Europe. NR
TOUR 254
WORLD DESTINATIONS-
PACIFIC, ASIA, AFRICA, MIDDLE
EAST
3 Units 3 hours lecture
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  
SELLING DREAMS - THE TRAVEL INDUSTRY  
3 Units 3 hours lecture  
Identifies the many segments of the Travel Industry including airlines, hotels, cruises, tours, car rentals, and rail. Summarizes their place and importance to the traveling public. Serves as an introduction into the travel industry and related positions and careers. Analyzes the differences between sales and marketing. Explores target marketing, demographics, how to sell, advertising, telephone sales, resume writing and interviewing.  

TOUR 257  
TOURS AND CRUISES  
3 Units 3 hours lecture  
Methods and practices for booking tours and cruises worldwide. Fundamentals of the tour and cruise industry, including various products and comparisons.  

TOUR 259  
AIRLINE COMPUTER TRAINING  
2 Units 1 hour lecture 3 hours lab  
Recommended Preparation: TOUR 250  
Designed for advanced travel and tourism students with emphasis on advanced SABRE computer training, including invoice/itinerary and PHASE IV applications.  

Tutoring  
TU 100  
FUNDAMENTALS OF TUTORING  
2 Units 1 hour lecture 2 hours lab  
Transfers: CSU  
A general introduction to tutoring and skills needed to be an effective tutor. Includes theories of learning and practical applications. Training in learning styles, using questioning techniques, college resources, prioritizing feedback, and modeling 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 Resource Center.  

TU 300  
SUPERVISED TUTORING  
0 Unit 12 hours learning center  
Designed to provide assistance for all students who require additional support in their courses at the college, including basic skills, advanced and honors levels. Students are assisted by trained tutors who promote self-regulated learning, critical thinking, and problem solving on the part of student learners. Students are supported to monitor their own learning processes. This course is open-entry/open-exit.  

Women's Studies  
WS 10  
INTRODUCTION TO WOMEN'S STUDIES  
3 Units 3 hours lecture  
Transfers: CSU, UC  
An exploration of the core concepts of women's and gender studies focusing on the ways in which the categories of gender as a social construct impact social institutions, cultural practices and the lives of women and men. The course focuses on the ways in which differences of race, ethnicity, class, sexuality and age define gendered experiences and identities.  

WS 31  
GENDER AND POPULAR CULTURE  
3 Units 3 hours lecture  
Transfers: CSU, UC  
Examines how forms of popular culture such as advertising, film, television and music construct gender and how those constructions become cultural norms. Explores how popular culture defines and shapes ideas of women, men, race, class and sexuality.  

WS 120  
WOMEN AND CAREERS  
3 Units 3 hours lecture  
Transfers: CSU  
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.
Emeritus Courses

Emeritus Accounting

ACCT 229X
IMPROVING INVESTMENT PERFORMANCE (EI)
0 Unit 1 hour lecture
0 Unit 2 hours lecture
Focuses on maximizing investment performance for the beginning and experienced investor, including strategies critical to the formation, preservation and growth of financial assets. R.99

ACCT 232X
STOCKS AND BONDS MANAGEMENT (EI)
0 Unit 2 hours lecture
Examines the dynamics of global economics, stock and bond markets, and mutual funds with an emphasis on helping investors develop an informed and strategic investment philosophy. R.99

Emeritus Art

ART 10X
CERAMICS HANDBUILDING (EI)
0 Unit 1 hour lecture 2 hours lab
A practical and historical introduction to the core aspects of the ceramics process. The course will include handbuilding, trimming and finishing, firing and glazing. R.99

ART 10X
CERAMICS HANDBUILDING (EI)
0 Unit 0.5 hour lecture 1 hour lab
A practical and historical introduction to the ceramics process. The course will include handbuilding, trimming and finishing, firing and glazing. R.99

ART 11X
BEGINNING CERAMICS-WHEEL (EI)
0 Unit 1 hour lecture 2 hours lab
Introduction to potter’s wheel techniques, with emphasis on traditional shapes and forms. Includes wheel throwing techniques, trimming and finishing, firing and glazing. R.99

ART 12X
INTERMEDIATE CERAMICS (EI)
0 Unit 0.5 hour lecture 1 hour lab
Recommended Preparation: ART 10X
Covers theory, materials, and techniques of ceramics at an intermediate level. Includes design-forming techniques, use of the potter’s wheel, glazing, and firing. R.99

ART 12X
INTERMEDIATE CERAMICS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 10X
Covers theory, materials, and techniques of ceramics at an intermediate level. Includes design-forming techniques, the potter’s wheel, glazing, and firing. R.99

ART 13X
ADVANCED CERAMICS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 12X
Course directs advanced projects in ceramics with emphasis on the 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
BEGINNING CERAMICS-SLIPCASTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 14X
Theory and application of transparent underglazes, specialty glazes, and advanced decorative techniques. R.99

ART 14XB
INTERMEDIATE CERAMICS-SLIPCASTING (EI)
0 Unit 1 hour lecture 2 hours lab
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
ADVANCED CERAMICS-SLIPCASTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 14XA and ART 14XB
Advanced ceramic slipcasting techniques including concepts in advanced surface and color in the low fire ceramic process. Advanced glaze concepts, including specialty glazes, advanced use of ceramic forms, and ceramic product development will be emphasized. R.99

ART 14XD
ART OF CERAMIC DECORATING (EI)
0 Unit 1 hour lecture 2 hours lab
Theory and application of transparent underglazes, specialty glazes, and advanced decorative techniques. Students’ advanced projects will provide for application of theory and practice of techniques. R.99

ART 20X
ART APPRECIATION (EI)
0 Unit 1 hour lecture
0 Unit 2 hours lecture
Focuses on the fundamentals and aesthetics of the visual arts, as well as the major developments that shaped the evolution of Western art. R.99

ART 25X
ART HISTORY (EI)
0 Unit 2 hours lecture
Surveys the history of Western art. Focuses on major works and artists of
lasting significance from prehistoric to the modern times. R_99

ART 28X
CONTEMPORARY ART AND CULTURE (EI)
0 Unit 2 hours lecture
Emphasizes 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
BEGINNING INTARSIA (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 61X
Traditional and contemporary intarsia techniques to create a variety of landscape, organic and geometric designs with inlaid stones. R_99

ART 31XB
INTERMEDIATE INTARSIA (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 31X
Develop a perspective of intarsia by size and color. Advanced methods in pointing and fitting of stone, and channel work. R_99

ART 33XA
BEGINNING ENAMELING (EI)
0 Unit 1 hour lecture 2 hours lab
Introductory studio course on basic enameling techniques for the beginner. R_99

ART 33XB
INTERMEDIATE ENAMELING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 33X
A studio course emphasizing traditional and contemporary concepts, processes, and techniques in enameling at an intermediate level. R_99

ART 35XA
BEGINNING STAINED GLASS (EI)
0 Unit 1 hour lecture 2 hours lab
Fundamental approach for working with stained glass using the copper-foil and lead came technique, in two and/or three-dimensional projects. R_99

ART 35XB
ADVANCED STAINED GLASS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 35X
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
BEGINNING JEWELRY METAL FABRICATION (EI)
0 Unit 1 hour lecture 2 hours lab
A studio course emphasizing the concepts, processes and techniques involved in the making of jewelry. Includes demonstration and practice in the design and construction of jewelry fabricated for decorative wear. R_99

ART 36XB
INTERMEDIATE JEWELRY METAL FABRICATION (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 36X
A studio course introducing intermediate methods, materials, designs and practices in the construction of jewelry by metal fabrication. Necessary tools and types of metals will be discussed. R_99

ART 36XC
ADVANCED JEWELRY METAL FABRICATION (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 36X
A studio course offering advanced theory and methods, materials, designs and practices in the construction of complex jewelry by metal fabrication such as adding color to metal. Production methods will be discussed. R_99

ART 39XA
BEGINNING JEWELRY DESIGN LOST WAX (EI)
0 Unit 1 hour lecture 2 hours lab
Studio course offering theory, demonstration, design and construction in the lost wax casting process of creating metal jewelry for decorative wear. R_99

ART 41X
ART MEDIA STUDIES (EI)
0 Unit 1 hour lecture 2 hours lab
Introduction to art media and related fine arts processes. Traditional and contemporary processes in fine art/mixed media and related processes including drawing, painting, printmaking, collage and assemblage in both two-dimensional and three-dimensional art forms. R_99

ART 50X
BEGINNING PAINTING IN OIL/ACRYLIC (EI)
0 Unit 1 hour lecture 2 hours lab
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 50X
BEGINNING PAINTING IN OIL/ACRYLIC (EI)
0 Unit 0.5 hour lecture 1 hour lab
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
INTERMEDIATE PAINTING IN OIL/ACRYLIC (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 50X
Designed for students who have some basic knowledge of color, composition and perspective and who wish to improve techniques, develop creativity and use their own resource materials. Introduction of techniques into abstract and non-objective painting in oil, acrylic, and other media. R_99

ART 52X
ADVANCED PAINTING IN OIL-ACRYLIC (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 51X
Designed for students who have an intermediate/advanced knowledge of painting, and who wish to continue to sharpen technique and further develop creativity, and style. The use of their own resource materials will be emphasized. R_99

ART 53X
PAINTING IN SUBJECT AREAS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 52X
Provides theory and demonstration of material and techniques in a variety of subject matter and art mediums. Various exercises in the use of material, composition, perspective, and value. R_99

ART 54X
PORTRAIT PAINTING IN OILS, WATERCOLOR AND PASTELS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 85X
Constructing the human head and features using a variety of painting media. Includes choosing a pose, lighting, as well as props and backgrounds. Demonstrations in oils, watercolors, and/or pastels. R_99

ART 55X
BEGINNING CHINESE BRUSH PAINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Provides an introduction to the techniques of Chinese Brush Painting. Practice traditional subjects including animal, vegetal and landscape motifs. Concepts in design and composition. Traditional mounting of completed paintings. R_99

ART 55B
INTERMEDIATE CHINESE BRUSH PAINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: ART 55X
Instruction in cutting and polishing gemstones, channel work and intarsia. Topics include: what makes a gemstone, how they occur, types of gemstone deposits, luster, hardness,
toughness, and complex lapidary machines.  

ART 70X  
BEGINNING SCULPTURE (EI)  
0 Unit 1 hour lecture 2 hours lab  
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.  

ART 71X  
INTERMEDIATE SCULPTURE (EI)  
0 Unit 1 hour lecture 2 hours lab  
Recommended Preparation: ART 70X  
Includes the creation of sculpture in contemporary as well as historic styles. The use of ceramic clay, soft stone, and synthetic modeling materials with emphasis on both the human and animal figure.  

ART 80X  
BEGINNING SKETCHING (EI)  
0 Unit 1 hour lecture 2 hours lab  
Basic drawing techniques with emphasis on individual artistic expression. Still life, student model, and location work will be done in the classical media of pencil, charcoal and pastel.  

ART 81X  
INTERMEDIATE SKETCHING (EI)  
0 Unit 1 hour lecture 2 hours lab  
Recommended Preparation: ART 80X  
Using traditional sketching media in still life, landscape, and figure drawing. Builds upon basic drawing techniques.  

ART 85X  
BEGINNING LIFE DRAWING (EI)  
0 Unit 1 hour lecture 2 hours lab  
Fundamental structure of the human body, including skeletal and muscular systems. Sketching and drawing exercises allow students to review, and apply their acquired knowledge in portraying the body.  

ART 85X  
BEGINNING LIFE DRAWING (EI)  
0 Unit 0.5 hour lecture 1 hour lab  
The fundamental structure of the human body, including skeletal and muscular systems. Sketching and drawing exercises allow students to review, and apply their acquired knowledge in portraying the body.  

Emeritus Biology  

BIO 226X  
BIRDS OF THE WORLD (EI)  
0 Unit 1 hour lecture 2 hours lab  
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.  

Emeritus English  

ENG 3X  
INTRODUCTION TO CREATIVE WRITING (EI)  
0 Unit 1.5 hours lecture  
An in-depth examination of the essentials of creative writing, including the basics of manuscript preparation, techniques of fiction and nonfiction, and the various functions of writing tools.  

ENG 4X  
ADVANCED CREATIVE WRITING (EI)  
0 Unit 3 hours lecture  
Recommended Preparation: ENG 3X  
An in-depth study of prose including organization, classification, comparison and contrast, cause and effect, as well as definition and development for nonfiction and fiction. Point of view, plot description, characterization, dialogue, narration, theme, sights, sounds, and sensation will also be discussed.  

ENG 6X  
NON-FICTION WRITING (EI)  
0 Unit 3 hours lecture  
Focus will be on techniques and practice in writing nonfiction articles, essays, and biographical sketches.  

ENG 40XA  
THE BIBLE AS LITERATURE - GENESIS TO PSALMS (EI)  
0 Unit 2 hours lecture  
A literary examination of the Hebrew Bible from Genesis to Psalms, analyzing the structure, form, authorship, transmission, style, and distinctive themes of these books. There is special focus on the original Jewish cultural contexts from which this literature arose.  

ENG 40XA  
THE BIBLE AS LITERATURE - PSALMS TO GOSPELS (EI)  
0 Unit 2 hours lecture  
A literary examination of the Bible from the Hebrew Psalms to the Synoptic Gospels, analyzing the structure, form, authorship, transmission, style, and distinctive themes of these books. There is
special focus on the original Jewish cultural contexts from which this literature arose. \( R_\ 99 \)

**ENG 40XA**

THE BIBLE AS LITERATURE - GOSPELS TO REVELATION (EI)

0 Unit 2 hours lecture

Presentation and discussion of the New Testament from John's gospel to his apocalypse. This includes Pauline and non-Pauline Epistles and focuses on the historical, theological, cultural, and literary contexts from which the New Testament emerged. \( R_\ 99 \)

**ENG 52X**

FILM AS LITERATURE (EI)

0 Unit 1.5 hours lecture

0 Unit 3 hours lecture

Examination of film as a 20th and 21st century art form. Considers foreign and domestic cinema with a focus on archetype, myth, symbol, characterization, and plot. \( R_\ 99 \)

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**Emeritus Fashion**

**FASH 110XA**

BEGINNING CLOTHING CONSTRUCTION (EI)

0 Unit 1 hour lecture 2 hours lab

This course is designed for the beginning student, and emphasizes the operation of a sewing machine, pattern reading, layout and garment construction. Focus on improvement of basic sewing techniques and process. \( R_\ 99 \)

**FASH 110XB**

INTERMEDIATE CLOTHING CONSTRUCTION (EI)

0 Unit 1 hour lecture 2 hours lab

Recommended Preparation: FASH 110XA

Clothing construction and pattern alterations for personal wardrobe. Examine and utilize commercial patterns, selection of fabric, textures and principles of color design. \( R_\ 99 \)

**FASH 110XC**

ADVANCED CLOTHING CONSTRUCTION (EI)

0 Unit 1 hour lecture 2 hours lab

Recommended Preparation: FASH 110XB

Advanced techniques in construction of garments. Adjust patterns or use designer patterns for personal and fitted styles. Handling of special fabrics and fine custom details. \( R_\ 99 \)

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**FASH 124X**

WEARABLE ART (EI)

0 Unit 0.5 hour lecture 1 hour lab

0 Unit 1 hour lecture 2 hours lab

Design and construct a garment or accessory incorporating techniques of surface design, bobbin work, fabric manipulation, embellishment and dimensional texture. \( R_\ 99 \)

**FASH 125X**

RIBBON WORK (EI)

0 Unit 1 hour lecture 2 hours lab

Techniques of ribbon manipulation including classic and contemporary design methods in producing wearable adornments or accessories. Designed for students interested in fashion design. \( R_\ 99 \)

**FASH 282XA**

BEGINNING CROCHETING (EI)

0 Unit 1 hour lecture 2 hours lab

Introduction to crochet. Includes color, design, types of yarns, crochet thread, terminology used in reading, and following patterns. Crochet techniques for artistic, functional and wearable projects. \( R_\ 99 \)

**FASH 282XB**

INTERMEDIATE CROCHETING (EI)

0 Unit 1 hour lecture 2 hours lab

Recommended Preparation: FASH 282XA

Study of fibers used for crochet so that student can construct garments or accessories. Review of crochet pattern techniques. New stitches and methods 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**

BEGINNING KNITTING (EI)

0 Unit 1 hour lecture 2 hours lab

Introduction to knitting theory, techniques and fibers. Lectures include how to read and modify patterns, cast on and cast-off, basic stitches and finishing techniques, use of test swatches, and understanding gauge. \( R_\ 99 \)

**FASH 283XB**

INTERMEDIATE KNITTING (EI)

0 Unit 1 hour lecture 2 hours lab

Recommended Preparation: FASH 283XA

Develop knitting skills at an intermediate level. Learn new cast-on, cast-off methods, simple pattern combinations, and how to adjust pattern to fit specific size. \( R_\ 99 \)

**FASH 286X**

QUILTING AND PATCHWORK (EI)

0 Unit 1 hour lecture 2 hours lab

Fundamental quilting/patchwork techniques to include: applique, cathedral windows, crazy quilting, fabric selection, pattern drafting, piecing, reverse applique, and trapunto. \( R_\ 99 \)

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**Emeritus Gerontology**

**GERO 120X**

WEIGHT-RELATED HEALTH RISK FACTORS-EI

0 Unit 3 hours lecture

Informs students about risk factors contributing to cardiovascular disease. Students develop individual programs of weight control including measures for blood pressure control, calorie intake, energy expenditure, body composition, aerobic conditioning and nutritional analysis. \( R_\ 99 \)
Emeritus Health

HLTH 501
HEALTH FITNESS AND WELLNESS FOR THE OLDER ADULT (EI)
0 Unit 1.5 hours lecture 1.5 hours lab
Principles of achieving and maintaining ideal body composition through lectures and discussions on balanced nutrition and life sustaining exercise strategies designed for the older adult. Principles applied within an aerobic exercises skills lab to enhance cognitive and physical wellness.  R 99

HLTH 502
HEALTH AND WELLNESS FOR THE OLDER ADULT (EI)
0 Unit 1 hour lecture 1 hour lab
Assesses the physical and mental health processes of aging and stresses the importance of maintaining independence in daily activities. Topics include cognitive abilities, nutrition, diet, exercise, and disease/injury prevention as it relates to the older adult.  R 99

HLTH 503
HEALTH AND FITNESS FOR THE OLDER ADULT (EI)
0 Unit 0.75 hour lecture 0.75 hour lab
Assesses the physical and mental health processes of aging and stresses the importance of exercise in maintaining independence in daily activities. Topics include cognitive and physical exercise, diet, nutrition, and disease and injury prevention as it relates to the older adult.  R 99

HLTH 504
HEALTHY AGING FOR THE OLDER ADULT (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Various health related topics and safe, beneficial exercises intended to promote general health and fitness for older adults will be introduced and discussed. Each class will incorporate information, discussion, and implementation strategies.  R 99

Emeritus Health Science

HSC 105X
CONSUMER HEALTH ISSUES (EI)
0 Unit 2 hours lecture
Promotes awareness and informed decision making in regard to health issues, including health insurance, frauds, legislation, selection of doctors, pharmacists and health care agencies.  R 99

Emeritus History

HIST 205X
WESTERN CIVILIZATION SINCE 1648 (EI)
0 Unit 1 hour lecture
0 Unit 2 hours lecture
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 275X
CONTEMPORARY MIDDLE EAST (EI)
0 Unit 1 hour lecture
0 Unit 2 hours lecture
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

Emeritus Humanities

HUM 204X
MODERN WORLD CULTURE: 1700-PRESENT (EI)
0 Unit 2 hours lecture
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

Emeritus Music

MUS 19X
INTRODUCTION TO OPERA (EI)
0 Unit 3 hours lecture
Educate the older adult in the 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
FOR THE LOVE OF MUSIC (EI)
0 Unit 3 hours lecture
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 34X
MEN’S AND WOMEN’S CHORAL - BARBERSHOP (EI)
0 Unit 1 hour lecture 1 hour lab
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 34X
MEN’S AND WOMEN’S CHORAL - BARBERSHOP (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Choral ensemble of male and female voices specializing in the rehearsal and performance of barbershop harmony. Special attention will be given to note values, basic rhythms, ear training and diction.  R—99
MUS 80X
VOICE AND RHYTHMS (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
0 Unit 1 hour lecture 1 hour lab
Emphasizes vocal techniques, including tone production, breath control, and pronunciation, as well as music literature. Performance at end of the semester. R_99

MUS 290X
CHORAL ENSEMBLE (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
0 Unit 1 hour lecture 1 hour lab
Choral singing for the older adult emphasizing choral literature. Development of ensemble through correct singing and vocal production. R_99

MUS 295X
REHEARSAL AND PERFORMANCE INSTRUMENTAL (EI)
0 Unit 1 hour lecture 1 hour lab
Recommended Preparation: Previous instrumental training and demonstrated proficiency
Preparation, study, and performance of orchestra concert repertoire. Designed for the older adult interested in orchestral performance. R_99

EMERITUS PHOTOGRAPHY
PHOT 40X
BEGINNING DIGITAL SHOW PRESENTATIONS (EI)
0 Unit 0.5 hour lecture 1 hour lab
0 Unit 1 hour lecture 2 hours lab
Covers phases and techniques in digital visual/audio presentations from photo essays, documentaries, how-to and travel shows. Includes planning, photographing, selecting slides, writing narration, preparing graphics, music, sound effects and cues. Also included are methods of presentation and preservation. For older learners. R_99

PHOT 50XA
BEGINNING COLOR PRINTING (EI)
0 Unit 0.5 hour lecture 1 hour lab
0 Unit 1 hour lecture 2 hours lab
Covers the technical aspects of using a digital camera and the importance of composition in the creation of an image. Includes still life set ups, photographing models and field trips. Downloading, storing, organizing and editing photographic images using software programs will be emphasized. Burning to discs and email images will be discussed. R_99

PHOT 50XB
INTERMEDIATE DIGITAL PHOTOGRAPHY (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: PHOT 50XA
Reviews technical aspects of using a digital camera, image composition, downloading, storing, organizing and editing images using software programs. Also includes portraits, night photography, flash- and-fill technologies, digital media enhancement, and the use of filters. Students will also learn the basic principles of judging and evaluating photographs. R_99

PHOT 59XA
BEGINNING COLOR PRINTING (EI)
0 Unit 1 hour lecture 2 hours lab
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

EMERITUS PHILOSOPHY
PHIL 230X
INTRODUCTION TO PHILOSOPHY (EI)
0 Unit 1 hour lecture
0 Unit 2 hours lecture
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
HISTORY OF FREETHOUGHT IN WESTERN WORLD (EI)
0 Unit 1 hour lecture
0 Unit 2 hours lecture
History of freethought 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
PHOT 59XB
ADVANCED COLOR PRINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: PHOT 59XA
Advanced and innovative techniques and procedures used in color printing. Related topics of photography and printing will supplement laboratory work.  R_99

Emeritus Political Science

PS 214X
CURRENT ISSUES IN GOVERNMENT (EI)
0 Unit 1 hour lecture 0 Unit 2 hours lecture
Exploration of current issues and events on global, national, and local levels. Problem areas include crime, economics, social services loads, environment, terrorist, and conflicts. Focuses on the impact of these events on the lives of older adults.  R_99

Emeritus Spanish

SPAN 230X
BEGINNING PRACTICAL SPANISH (EI)
0 Unit 2 hours lecture
Recommended Preparation: SPAN SH (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 231X
INTERMEDIATE PRACTICAL SPANISH (EI)
0 Unit 2 hours lecture
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 232X
ADVANCED PRACTICAL SPANISH (EI)
0 Unit 2 hours lecture
Recommended Preparation: SPAN 231X
Designed to develop fluency in Spanish. The emphasis is on expression and conversation in Spanish.  R_99

Emeritus Special Services

SPS 145X
BEGINNING LIPREADING AND HEARING CONSERVATION (EI)
0 Unit 3 hours lecture
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

Emeritus Theatre Arts

TA 2X
BEGINNING SCENE STUDY (EI)
1 hour lecture 1 hour lab
Concentrates on review of the works of major playwrights, scene development and study, characterization, and ensemble performance while developing the essential skills of method acting.  R_99

Adult Education Courses

Adult Education

English as a Second Language

AESL 701T
BASIC LITERACY: ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE
0 Unit 8 hours lecture 1 hour lab
This is a non-credit, open enrollment life skills course within the Adult Education Department designed for students who cannot read or write in English. They may or may not be literate in their primary language. Students will be introduced to the basic concepts of literacy in English. Students will learn to recognize and write the alphabet and numbers, to form English words and to develop their abilities to speak and understand English.  R_99

AESL 702T
BEGINNING LOW: ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE
0 Unit 8 hours lecture 1 hour lab
This is a non-credit, open enrollment life skills course within the Adult Education Department that is designed for students who have emerging literacy skills in English. Students will practice communication skills in everyday situations and build vocabulary through listening, speaking, reading, writing and grammar activities.  R_99

AESL 703T
BEGINNING HIGH: ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE
0 Unit 8 hours lecture 1 hour lab
This is a non-credit, open enrollment life skills course within the Adult Education Department that is designed for students who have basic English language skills. Students will learn and communicate in everyday situations and build a larger vocabulary through listening, speaking, reading, writing and grammar activities. There will be emphasis on comprehending simple conversations, communicating survival needs, reading phrases and simple
sentences, and performing communicative written tasks. R_99

AESL 704T
INTERMED. LOW: ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE
0 Unit 8 hours lecture 1 hour lab
This is a non-credit, open enrollment life skills course within the Adult Education Department that is designed for students who have intermediate language skills in English. Students will improve their listening comprehension, speaking, reading, writing and grammar. There will be emphasis on creative oral language activities, initial critical thinking skills in reading comprehension, and written tasks which begin to focus on academic skills. R_99

AESL 705T
INTERMED. HIGH: ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE
0 Unit 8 hours lecture 1 hour lab
This is a non-credit, open enrollment life skills course within the Adult Education Department that is designed for students who have intermediate language skills in English. Students will improve their listening comprehension, speaking, reading, writing and grammar. Emphasis will be on understanding higher level language activities, reading passages with increased understanding, and increasing focus on creative and academic writing tasks. R_99

AESL 706T
ADVANCED LOW: ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE
0 Unit 8 hours lecture 1 hour lab
This is a non-credit, open enrollment life skills course within the Adult Education Department that is designed for students who have a low-advanced level of proficiency in written English. Students will improve their reading, composition, grammar, listening comprehension, speaking, and study skills to prepare them for credit courses or high school equivalency (HSE) preparation courses. Emphasizes understanding higher level language activities, conversations which convey complex thought patterns, authentic material which expands the use of critical thinking skills, and realistic and academic writing. R_99

AESL 708T
CITIZENSHIP PREPARATION: ADULT EDUCATION ESL
0 Unit 5 hours lecture 1 hour lab
A course in citizenship preparation within the Adult Education Department which provides development in listening, speaking, reading, and writing English within the context of history and government in preparation for the United States Citizenship examination. Recommended for students who have completed Beginning High ESL course or score at least 201 on CASAS placement test. R_99

AESL 707T
ADVANCED HIGH: ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE
0 Unit 8 hours lecture 1 hour lab
This is a non-credit, open enrollment life skills course within the Adult Education Department that is designed for students who have high-advanced level of proficiency in written English. Students will improve their reading, composition, grammar, listening comprehension, speaking, and study skills to prepare them for credit courses or high school equivalency (HSE) preparation courses. Emphasis will be on higher level language activities, conversations which convey complex thought patterns, authentic material which expands the use of critical thinking skills, and realistic and academic writing. R_99
District Administrators

**Fitzsimons, Debra (2011)**
Acting Chancellor  
B.A., Pennsylvania State University, PA  
M.P.A., Slippery Rock University, PA  
Ed.D., University of Pittsburgh

**Bramucci, Robert (2008)**
Vice Chancellor, Technology and Learning Services  
B.S., University of Memphis, Tennessee  
M.A.P., University of Little Rock, Arkansas  
Ph.D., Washington State University, Washington

**Bugay, David (2008)**
Vice Chancellor, Human Resources  
B.S., Wayne State University, Michigan  
M.B.A., Oakland University, Michigan  
Ph.D., Union Institute and University, Ohio

**Brahmbhatt, C.M. (2016)**
Acting Vice Chancellor, Business Services  
B.A., M.B.A., Gujrat University, Ahmedabad, India

Saddleback College Administrators

**Alvarado, Christian (1999)**
Dean, Enrollment Services  
B.S., Azusa Pacific University  
M.P.A., California State University, Northridge

**Aminy, Marina (2009)**
Dean, Online Education & Learning Resources  
Ph.D., M.A., & B.A., University of California, Berkeley

**Avalos, Juan (2010)**
Vice President for Student Services  
B.S., University of California, Davis  
M.A., Ph.D., University of California, Los Angeles

**Burnett, Tod (2008)**
President  
B.A., University of California, Riverside  
M.B.A., University of Southern California  
Ed.D., Pepperdine University

**Castillo-Garrison, Estella (2005)**
Dean, Community Education, Emeritus Institute and K-12 Partnerships  
B.S., Central Michigan University  
M.A., Park University  
Ed.D., Pepperdine University

**Dominguez, Israel (2015)**
Director, Economic & Workforce Development  
B.S., California Polytechnic State University, San Luis Obispo  
M.B.A., University of La Verne

**Guy, Georgina (2008)**
Interim Dean, Transfer, Career and Special Programs  
M.A. & B.A., California State University, Dominguez Hills  
M.S., California State University, Fullerton  
Ph.D. & M.A., Alliant University

**Jaramillo, John (2015)**
Dean, Economic & Workforce Development and Business Science  
B.A., College of Notre Dame  
M.B.A., University of Phoenix

**Lipold, Anthony (2001)**
Dean, Kinesiology and Athletics/Athletics Director  
B.A., California State University, Fullerton  
M.S., National University, San Diego

**McHenry, Bart (2010)**
Dean, Fine Arts and Media Technology  
B.F.A., University of Southern California  
M.F.A., University of California, Irvine

**Nitta, Art (2016)**
Dean, Mathematics, Science and Engineering  
B.A., University of California, Irvine  
M.S., California State Polytechnic University, Pomona

**O'Connor, Kevin (1999)**
Dean, Liberal Arts  
B.A., San Diego State University  
Ph.D., University of Southern California

**Pestolesi, Diane (1996)**
Assistant Dean, Health Sciences and Human Services  
B.S.N., University of Hawaii, Manoa  
M.S.N., California State University, Dominguez Hills  
D.N.P., Western University of Health Sciences

**Predoehl, Daniel (2014)**
Director, Emeritus Institute  
B.A., George Fox University, Newberg, OR  
M.Ed., Azusa Pacific University

**Rane-Szostak, Donna (2009)**
Dean, Health Sciences and Human Services  
B.A., Mundelein College  
B.S.N., Rush University  
Ed.D., Northern Illinois University

**Skaff, Penelope (2011)**
Dean, Counseling Services  
B.A., California State University, Chino  
M.A., Phillips Graduate Institute

**Teng, Anthony (2007)**
Dean, Advanced Technology and Applied Science  
B.S., California State University, Long Beach  
M.A., William Howard Taft University, Santa Ana  
M.B.A., Touro University International

**Werle, Kathy (2013)**
Vice President for Instruction  
B.S.N., M.S.N., California State University, Los Angeles  
Ph.D., University of Southern California, Los Angeles

**Wynter, Cadence (2012)**
Dean, Social and Behavioral Sciences  
B.A., Open University Milton Keynes, England  
M.Ed., University of Manchester, England  
Ph.D., University of Illinois, Chicago

Saddleback College Faculty

**Abbas, Sam (2016)**
Assistant Professor, Mathematics, Science and Engineering  
B.S., University of California, San Diego  
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Ph.D., University of Texas at El Paso

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Associate Professor, Fine Arts and Media Technology  
B.M., Jazz Studies, Indiana University  
M.A., Jazz Studies, University of Southern California  
D.M.A., Jazz Studies, University of Southern California

**Alston II, William (2004)**
Professor, Mathematics, Science and Engineering  
B.S., Prairie View A & M University  
Ph.D., University of Arkansas

**Anderson, Ronald (1999)**
Professor, Mathematics, Science and Engineering  
B.A., M.A., University of California, San Diego  
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Azary, Maryam (1994)
Professor, Counseling Services
B.A., Texas Southern University
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Psy.D., Alliant International University, San Diego

Bagwell, Janet (2002)
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B.S., Duquesne University
M.S., California State University, Fullerton

Barr, Douglas M. (1991)
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**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.