



50 years  
Saddleback College



# Catalog 2018-2019

# **SADDLEBACK COLLEGE**

## **2018-2019 Academic Calendar**

### **Fall Semester 2018**

Instruction Begins .....	August 20
Labor Day Observance – classes not in session.....	September 3
Mid-Semester Instruction begins .....	October 18
Last day to petition for Fall Graduation.....	November 1
Veterans Day Observance – classes not in session .....	November 12
Thanksgiving Observance – classes not in session .....	November 22-25
Final Exams .....	December 13-19
Winter Break .....	December 20 - January 13

### **Spring Semester 2019**

First day applications accepted for New and Former Students.....	August 1
Instruction Begins .....	January 14
Martin Luther King Day Observance – classes not in session .....	January 21
Presidents' Day Observance – classes not in session .....	February 15-18
Last day to petition for Spring graduation.....	March 1
Spring Recess – classes not in session .....	March 17 - 23
Cesar Chavez Day Observance .....	March 29
Final Exams .....	May 16 - 22
Commencement – Saddleback College.....	May 24

### **Summer Session 2019**

Memorial Day Observance – classes not in session .....	May 27
Instruction Begins .....	May 28 - August 11
Last day to petition for Summer graduation .....	July 1
Independence Day Observance – classes not in session.....	July 4

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 obligation.

# Saddleback College Catalog

## 2018-2019

### Volume L

**28000 Marguerite Parkway • Mission Viejo, California 92692 • (949) 582-4500**

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

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

Data on Saddleback College's programs leading to gainful employment, required to comply with the Higher Education Act of 1965 as amended, can be found on the Saddleback College website at [www.saddleback.edu](http://www.saddleback.edu). For Catalog updates and addenda, please refer to [catalog.saddleback.edu](http://catalog.saddleback.edu).

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

Please refer to the online catalog supplement at [catalog.saddleback.edu](http://catalog.saddleback.edu) for policies and/or degrees that have been approved *after publication of the hardcopy* Saddleback Course Catalog.

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

## Table of Contents

South Orange County Community College District	3	Credit for Prior Learning	50
Saddleback College Administration	4	Other Educational Opportunities	58
Divisions, Departments, and Services	4	Honors Program	59
President's Message	7	Graduation Requirements	61
Institutional Student Learning Outcomes (SLOs)	8	Degrees, Certificates, and Awards	67
Vision, Mission, Values of Saddleback College	9	California Four Year Public Universities	206
Informacion en Espanol	10	Articulation/Transfer Patterns	207
Admission Requirements	12	The California State University	208
Student Fees/Refunds/Credits	15	University of California	213
Matriculation Services	18	Independent California Colleges and Universities	218
Registration for Classes	21	Information about Academic Courses	219
Student Activities/College Life	24	Enrollment Limitations for Active Participatory Courses	221
Student Support Services	26	Courses	225
Eligibility Requirements for Federal Student Aid	29	Emeritus Courses	352
Student's Rights and Responsibilities	32	Adult Education Courses	358
Faculty Code of Ethics and Professional Standards	35	Administration and Faculty	360
Grade Grievance Policy	38	Emeriti Faculty	368
Academic Regulations	43	Saddleback College Catalog Adendum	373
Probation	46		



## South Orange County Community College District

28000 Marguerite Parkway, Mission Viejo, California 92692 • (949) 582-4999 • [www.socccd.edu](http://www.socccd.edu)

**Dr. Kathleen F. Burke**  
Chancellor

**Dr. Robert S. Bramucci**  
Vice Chancellor  
*Technology and Learning Services*

**Dr. Cindy Vyskocil**  
Vice Chancellor  
*Human Resources*

**Ann-Marie Gabel**  
Vice Chancellor  
*Business Services*

Included above is the executive leadership, for all administrators/managers (which include directors)  
please see the organizational chart on the district's website here:  
<http://www.socccd.edu/about/SOCCCDOrgCharts.htm>

### Vision

To be an educational leader in a changing world.

### Mission

We provide a dynamic and innovative learning environment for diverse learners of all ages, backgrounds, and abilities. We promote access, success and equity to meet each student's goal of skills development, certificate, associate degree, transfer or personal enrichment. We contribute to the economic vitality of the region.

### 2014-2020 District-Wide Goals

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

### Board of Trustees

<b>Timothy Jemal</b> President	<b>Marcia Milchiker</b> Vice President	<b>T.J. Prendergast III</b> Clerk	<b>Barbara J. Jay</b> Member
<b>James R. Wright</b> Member	<b>David B. Lang</b> Member	<b>Terri Whitt</b> Member	<b>Evelyn Hoang</b> Student Member

## Saddleback Administration

Office of the President <b>Interim President</b>	(949) 582-4722 <b>Dr. James Buysse</b>
Office of Instruction <b>Vice President</b>	(949) 582-4795 <b>Tram Vo-Kumamoto</b>
Office of Student Services <b>Vice President</b>	(949) 582-4566 <b>Dr. Juan Avalos</b>
Office of College Administrative Services <b>Interim Vice President</b>	(949) 582-4664 <b>Jo Ann Higdon</b>
Admissions, Records and Enrollment Services <b>Dean</b>	(949) 582-4555 <b>Christian Alvarado</b>
Student Development <b>Director</b>	(949) 582-4616 <b>Christopher Hargraves</b>
Financial Aid <b>Director</b>	(949) 582-4860 <b>Amber Gallagher</b>

## Divisions, Departments, and Services

### Advanced Technology and Applied Science

(949) 582-4541

<b>Dean</b>	<b>Anthony Teng</b>
<i>Advanced Manufacturing</i> <i>Architectural Drafting</i> <i>Automotive Technology</i> <i>Computer Maintenance Technology</i> <i>Cosmetology</i> <i>Drafting Technology</i> <i>Ecological Restoration</i> <i>Electronic Technology</i> <i>Environmental Studies</i>	<i>Family and Consumer Sciences</i> <i>Fashion</i> <i>Foods and Nutrition</i> <i>Graphics</i> <i>Horticulture</i> <i>Interior Design</i> <i>Marine Science Technology</i> <i>Travel and Tourism</i>

### Economic & Workforce Development and Business Science

(949) 582-4773

<b>Dean</b> <b>Assistant Dean of Career and Technical Education</b> <b>Director, Economic and Workforce Development</b>	<b>John Jaramillo</b> <b>Kari Irwin</b> <b>Israel Dominguez</b>
<i>Accounting</i> <i>Administrative Assistant</i> <i>Business</i> <i>Computer and Information Management</i> <i>Real Estate</i>	<i>Career Placement</i> <i>Contract Education</i> <i>Cooperative Work Experience</i> <i>Real Estate Education Center</i>

### Community Education, Emeritus Institute and K-12 Partnerships

(949) 582-4326 – Community Education

(949) 582-4835 – Emeritus Institute

<b>Assistant Vice President</b> <b>Assistant Dean of Division/Director of Emeritus Institute</b> <b>Assistant Dean of Community Outreach and Recruitment</b>	<b>Dr. Karima Feldhus</b> <b>Daniel Predoehl</b> <b>Bart McHenry</b>
<i>Adult Education</i> <i>Community Education</i>	<i>Emeritus Institute</i> <i>Outreach and Recruitment</i>

**Counseling Services**  
**(949) 582-4572**

<b>Dean</b>	<b>Penelope Skaff</b>
<i>Articulation Counseling Career Services</i>	<i>General Counseling Matriculation Re-Entry Center</i>

**Fine Arts and Media Technology**  
**(949) 582-4747**

<b>Dean</b>	<b>Dr. Cadence Wynter</b>
<i>Art Art History Cinema/TV/Radio Communication Studies (formerly Speech)</i>	<i>Music Photography Theatre Arts/Entertainment &amp; Theatre Technology</i>

**Health Sciences and Human Services**  
**(949) 582-4701**

<b>Dean Assistant Dean/Director of Nursing</b>	<b>Dr. Diane Pestolesi Esther Gravis</b>
<i>American Sign Language Emergency Medical Technology Health Sciences Health Information Technology Human Services Insurance Billing</i>	<i>Medical Assistant Medical Lab Technician Mental Health Nursing Paramedic Phlebotomy</i>

**Kinesiology and Athletics**  
**(949) 582-4545 – KNEA**  
**(949) 582-4547 – ATHL**

<b>Dean</b>	<b>Dan Clauss</b>
<i>Adapted Kinesiology Dance Health</i>	<i>Intercollegiate Athletics Kinesiology</i>

**Liberal Arts**  
**(949) 582-4788**

<b>Dean</b>	<b>Dr. Kevin O'Connor</b>
<i>English English as a Second Language Humanities International Languages</i>	<i>Journalism Philosophy Reading</i>

**Mathematics, Science and Engineering**  
**(949) 582-4820**

<b>Dean</b>	<b>Art Nitta</b>
<i>Astronomy Biological Sciences Chemistry Computer Science Engineering</i>	<i>Geology Marine Science Mathematics Physics</i>

**Online Education and Learning Resources**  
**(949) 582-4397**

<b>Dean</b>	<b>Dr. Marina Aminy</b>
<i>Faculty Center Honors Library</i>	<i>LRC - Tutoring Online Education</i>

**Social and Behavioral Sciences**  
**(949) 582-4733**

<b>Interim Dean</b>	<b>Christina Hinkle</b>
<i>Anthropology Child Development and Education Economics Education Gender and Sexuality Studies Geography</i>	<i>Geographic Information Systems History Political Science Psychology Social Science</i>

**Student Equity and Special Programs**  
**(949) 582-4619**

<b>Dean</b>	<b>Dr. Georgina Guy</b>
<i>CalWORKS DSPS (LD; Alternate Media Productions; Accommodated Testing Center; Special Services Classes) EOPS/CARE</i>	<i>Foster Youth - STEPS Student Equity Transfer Center VETS Program</i>



## President's Message

### Welcome to Saddleback College

It is an exciting time to be at Saddleback College! As we begin our 50th year of educating students in south Orange County, we renew our commitment to student success, and we are positioned to make an even greater impact on this region.

Whether your plans include transferring to a four-year college or university, training for a career, or acquiring new skills, attending Saddleback is a smart choice. Saddleback College ranks in the top 10 among all community colleges in transfers to the University of California and in the top 20 in transfers to the California State University. Thousands more of our students move directly into skilled positions within trades and industries in southern California. We also rank 2nd among the 114 community colleges in California, in offering online programs.

Our faculty are leaders in their fields and constantly seek innovative ways to create learning environments that are both challenging and engaging for students. Throughout our campus, you will find highly skilled staff who are able to address financial aid questions, career pathways and academic tutoring.

On behalf of all of our faculty and staff, it is my distinct pleasure to welcome you to Saddleback College. You have made a wise decision in joining one of California's most recognized and successful colleges.

Saddleback's team is your partner as you enter your future!

Sincerely,

**James Buysse, Ph.D.**

*Interim President*

# **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.

## 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	
<p><b>Commitment</b></p> <p>We commit to fulfilling our mission to serve the south Orange County community.</p>	<p><b>Innovation</b></p> <p>We anticipate and welcome change by encouraging innovation and creativity.</p>
<p><b>Excellence</b></p> <p>We dedicate ourselves to excellence in academics, student support, and community service.</p>	<p><b>Academic Freedom</b></p> <p>We endorse academic freedom and the open exchange of ideas.</p>
<p><b>Collegiality</b></p> <p>We foster a climate of integrity, honesty, and respect.</p>	<p><b>Sustainability</b></p> <p>We promote environmental sustainability and use our resources responsibly to reduce our ecological impact.</p>
<p><b>Success</b></p> <p>We place our highest priority on student learning and delivering comprehensive support for student success.</p>	<p><b>Inclusiveness</b></p> <p>We cultivate equity and diversity by embracing all cultures, ideas, and perspectives.</p>
<p><b>Partnership</b></p> <p>We strive to develop strong and lasting partnerships among students, faculty, staff, and the community.</p>	<p><b>Global Awareness</b></p> <p>We recognize the importance of global awareness and prepare our students to live and work in an increasingly interconnected world.</p>

## 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 Consejería (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 CONCURRENT:** 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 y un día 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, podrían 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 agosto - primavera (principios de enero)
- 1 de febrero - verano (fines de mayo)

**COMO HACER UNA CITA 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: \$258.00 (por unidad) y en adición \$46.00 por unidad. Al no-residente que es ciudadano/a/residente extranjero/a adicionalmente se le cobrará \$30.00 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 comprar durante el otoño. Siempre hay que colocar su permiso dentro de su coche, colgándolo en el espejo retrovisor.

**COBRO DE SERVICIOS DE SALUD:** Debe pagar \$20 por semestre (en otoño y primavera) para cubrir servicios de salud personal. El costo en el semestre de verano es de \$17 y les permite a estudiantes que aprovechen varios servicios médicos. (Este servicio se cobrará aunque tome "0" unidades). 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 8. Su número de teléfono es (949) 582-4970.

## Enfermería/Centro de salud

El Centro de Salud de Saddleback College le 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](http://www.saddleback.edu/shc).

## Ayuda Financiera

La Oficina de Asistencia Financiera en Saddleback College está designada para proveer asistencia económica a estudiantes que cumplan 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](http://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 tutores/as gratis 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

## 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 units 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](mailto:scadmissions@saddleback.edu) or by calling the Office of Admissions and Records at (949) 582-4555.

### College of Record

You may only apply to Saddleback College or Irvine Valley College; this will be designated as your college of record. In addition, your college of record is where you complete all admission steps (application, assessment, advisement, academic plan, and orientation); receive support services, such as financial aid, DSPS, EOPS and other special services; 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.

### 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](http://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

### California Residence Classification

Each person enrolled in or applying for admission to a California community college, for purposes of admission and/or tuition, is classified as either a California resident or a nonresident. Students classified as nonresidents will be required to pay additional tuition and fees.

**"Resident students"** are those who have resided within California for at least one year prior to the residence determination date and have met the residency standards stipulated in Title 5 of the California Code of Regulations. The "residence determination date" is the day immediately preceding the opening day of instruction each semester or summer session during which the student proposes to attend college in the South Orange County Community College District.

**"Nonresident students"** are those who have not established California residence status 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 residence. Foreign students admitted to the United States under student visas are classified as nonresidents.

The Office of Admissions and Records determines the residence status of all new and former students for tuition purposes, based on responses provided in the college application for admission and, if necessary, other evidence furnished by 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 stationed in California.
- 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 under the age of 19.
- 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. Students must fill out and submit the "AB 540 Affidavit for Exemption" for consideration. Please call (949) 582-4555 for more information.

Other conditions may be required to meet these criteria. Please call (949) 582-4555 for more information.

## Establishing Residence

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. The prospective resident must take steps at least one year and one day prior to the residence determination date to show an intent to make California a permanent home and, concurrently, relinquish legal residency in the state of his or her prior home. There are various steps that one may take to demonstrate the intent to become a California resident. The Office of Admissions and Records will assist any student who wishes to establish residency, providing recommendations for each individual case.

For general purposes, the following are some, but not the only ways to show one has taken the necessary steps toward becoming a California resident:

1. Registered to vote and voted in elections in California.
2. Filed resident California state income tax.
3. Owned and resided in a residential property, or consistently or continually occupied or rented an apartment on a lease basis.
4. Maintained licensing from California for professional practice.
5. Maintained California vehicle registration and driver's license.
6. Maintained active savings and checking accounts in California banks.
7. Maintained permanent military address and home of record in California, if in the military service.

**Note:** No single item listed above may establish a case for California residence. It is up to the applicant to offer as many documents as possible to prove validity of the change to California resident.

## Reclassification to Resident Status

The request for reclassification to resident status must be initiated by the student. Students who are interested in changing their classification should consult the Office of Admissions and Records. Evidence of presence in and intent to reside in California-for at least one year and one day prior to a coming semester's start date-is required for consideration of a change in status and must be submitted for a residence review. Students should allow up to ten working days after submitting their documents for a decision. The burden of proof lies with the student. Residence reclassification must be completed no later than the first two weeks of the semester. Since some petitions require additional documentation to prove a residence case, students should be sure to submit reclassification requests early in an academic term.

## International Students (F1-Visa)

Saddleback College defines an "international student" as a student attending Saddleback College full-time 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](http://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](mailto: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: August 1
  - Summer session: February 1
2. A nonrefundable processing fee of \$54 for the 2017-2018 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](http://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, iTEP 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 iTEP 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. Saddleback also offers admission to international students who have completed specific levels of study at our partner intensive ESL schools. Please visit <http://www.saddleback.edu/iso> to find the list of partner schools. 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](http://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).
4. Official transcripts from prior institutions attended in the United States.

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

1. Enroll in and complete a minimum of 12 units 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](http://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 full-time 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](http://www.saddleback.edu/admissions).

For additional information, contact the International Student Office at (949) 582-4637 or [sc-iso@saddleback.edu](mailto: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.

## 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

Health fee policy for Spring 2019 and future semesters: All students enrolled in an on-campus or online course at Saddleback College are required to pay the health fee. Students enrolled in only off-campus courses are exempt from paying the health fee, but can "opt-in" to pay the fee if the student is interested in accessing the Health Center services. This fee is currently \$20 for the fall and spring semesters and \$17 for the summer semester. Students who enroll in both Saddleback College and Irvine Valley College are required to pay both colleges' health fees. This fee entitles students to a variety of health services. Please note that this is not a personal health insurance policy. Health fees are subject to change during the academic year.

State law provides the following exemptions from the health fee. Students must submit proof for these exemptions at the time they register:

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

Students must submit proof for these exemptions at the time they register.

### Material/Lab Fees

The policy for requiring students to provide instructional and other materials and establishing the provisions for assessing the students a fee for a credit or non-credit course shall conform to the following guidelines:

1. The materials shall be tangible personal property which are owned or primarily controlled by an individual student.
2. The material is of a continuing value to the student outside of the classroom setting, which can be taken from the classroom setting, and which is not wholly consumed, used up or rendered valueless as it is applied in achieving the required objectives of a course which are to be accomplished under the supervision of an instructor during class hours.
3. The material shall not be solely or exclusively available from the district except if it is provided to the student at the District's actual cost and:
  - a. The material is otherwise generally available, but is provided by the district for health and safety reasons; or
  - 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 fee costs can be found on the college website in the Student Payment Office web page 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** are \$5.00 in addition to the transcript fee. 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 requests 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](http://saddleback.edu/admissions/transcripts) for more information.

**Verifications of Enrollment** a standard official verification 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** 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-verifications](http://www.saddleback.edu/admissions/degree-and-enrollment-verifications).

### 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 asylee/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 \$30 per unit. This is in addition to the \$46 per unit enrollment fee and the \$258 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 \$258 per unit. This is in addition to the \$46 per unit enrollment fee and the \$30 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 before the semester begins, students are given 5 business days to pay for their registration. Students who have registered prior to the start of the semester with a balance over \$50 who have not paid by their fee deadline are subject to being dropped from 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 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.

## Parking Fee Credits

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

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

## 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: Orientation to Saddleback College, Math and English Placement, and Student Advisement including a First Semester Educational Plan.
2. Complete a first semester educational plan and establish goals
3. Attend classes
4. Discuss academic goals with a counselor
5. Use support services as needed
6. Make progress toward achieving the goal
7. Follow recommendations given by counselor/instructor

Saddleback College agrees to provide:

1. Resources and support services
2. Orientation to the college and placement into the appropriate courses
3. Advisement and First Semester Ed Plan
4. Courses in basic skills
5. Individual comprehensive educational plans
6. Career, learning, and transfer centers
7. Continued monitoring of academic success

### 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.

### 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.

### Steps in the Matriculation Process

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

- 1. Orientation to the College** provides students with information about the many resources available at Saddleback College. Students learn about student services, special programs, and other student support programs. They are introduced to MySite, the student information portal, and to policies and procedures required by Saddleback College.
- 2. Math and English Placement** (Current Assessment Process) is used as an indicator as to what course levels students should begin with and also clears prerequisites. Assessment may include, but is not limited to, information regarding the student's English proficiency, math skills, and possible need for special services.  
Placement can be obtained by using one or more of the following methods:
  - a) Successful completion of high school math and English courses with an adequate overall GPA
  - b) Completed other college math and/or English course(s) with a grade of C or better
  - c) Earning a 3 or higher on the English and/or Calculus College Board AP exam(s)
  - d) Complete the math and/or English Saddleback College assessment exams
- 3. Student Advisement/First Semester Educational Plan** assists students in determining their educational goals, plan their first semester schedule, and prepare a "First Semester Ed Plan." Students learn about transfer programs, degree requirements, career education/CTE programs and are introduced to the online registration process in MySite.

**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 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](http://www.saddleback.edu/matriculation).

## Retest Policy (if applicable)

**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 test 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 to complete the current Matriculation Process.
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 time-frame will result in a Comprehensive Plan (CP) hold which will delay registration.

### 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 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.
2. 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 wishing to take has an English and/or math prerequisite. Such evidence must demonstrate satisfactory completion of the prerequisite course with a grade of "A," "B," "C," "CR," or "P." Note: Grade of "C-" or lower is not satisfactory.
3. 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.

## 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 will 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](http://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.

## 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.

### 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](http://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* above)

### 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](http://www.saddleback.edu/admissions) for the most recent registration information.

### Enrollment Priorities

The South Orange County Community College District has established the following enrollment priority order when issuing registration times for students:

#### LEVEL 1

Only students who are required to complete all matriculation steps qualify for Level 1 registration.

Students exempt from matriculation steps for the following educational goals will receive a Level 3: Low Priority registration time:

- Legally mandated training or significant change in industry of licensure
- Personal Development
- 4-year university/college student enrolling to meet bachelor degree requirements
- Concurrently enrolled as a K-12 Special Admit
- Students who have completed an associate degree or higher

#### Priority Registration

1. Specific groups (DSPS, EOPS, active duty military, certain veterans, and those served by the foster care system who are under 25 years old) qualify for Priority Registration.
2. Other groups approved by local policy (student ambassadors, athletes, student government, Honors Program members, district staff and dependents of staff) qualify for Priority Registration.

**Freshman Advantage** – qualifying Freshman Advantage students are high school graduates who have never attended college and who complete assessment, advisement and orientation prior to the designated deadline.

**Continuing** – students who enrolled at Irvine Valley College or Saddleback College during the previous academic semester. 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 on a first-come, first-served basis at the time their application is processed.

**LEVEL 2**

**Emeritus** – continuing students in good standing who are only enrolled in Emeritus Program classes.

**LEVEL 3**

**Low Priority** – any student who meets one or more of the following conditions:

- are not required to complete matriculation steps (assessment, advisement including academic plan, and orientation)
- are on academic and/or progress probation for two consecutive semesters
- have completed 100 or more units district-wide (not including basic skills)

Students in the Low Priority category will be notified of their low priority registration as follows:

1. For students on probation for two consecutive semesters, notification will occur after the first semester of probation.
2. For students who reach the maximum 100 degree-applicable units completed in the district, notification will occur when 75% (75 units) of the limit has been reached.

**LEVEL 4**

**High School** – students concurrently enrolled in high school.

Students are encouraged to register as early as possible for the best possible course selection.

**APPEAL PROCESS**

Students may appeal to have their Registration Priority reinstated under the following conditions:

1. Student has a disability and applied for reasonable accommodations, but did not receive services in a timely manner.
2. Student has made significant academic improvement where they meet the minimum grade point average and/or progress standard to be removed from academic or progress probation.
3. Student has experienced extenuating circumstances (verified cases of accident, illnesses or other circumstances beyond the student's control; changes in a student's economic circumstances may be considered for BOGFW).
4. Student has completed 100 associate degree units, but is pursuing a high unit major (attach documentation). Appeals for Loss of Registration Priority may be submitted to the Office of Admissions and Records.

**Registration Open Enrollment Policy**

In conformity with the provisions of Title 5 of the California Administrative Code, 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, for which average daily attendance is reported for state aid, is fully open to enrollment and participation by any person admitted to the college who meets the stated course prerequisites.

**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.

**MySite**

MySite is the Saddleback College web portal that enables students to view their registration times, class schedules, grades, and academic history; add or drop classes; and access a variety of useful resources. Students need an ID number and a Personal Identification Number (PIN) to use MySite. For more information about MySite, please refer to the student handbook.

**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.

## Auditing Classes

Saddleback College does not permit auditing of classes

## 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. Being placed on a class roster by an instructor does not constitute official enrollment in the course.

## 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. Failure to attend a course does not constitute a withdrawal. Students withdraw from courses online through MySite.

**It is the student's responsibility to drop a class. However, every instructor has the authority to drop a student who misses the first class meeting or has excessive unexcused absences as defined in the class syllabus.**

## Deadlines for Dropping Classes

**Drop without a transcript annotation:** Drop must be completed prior to the first 20% of the course based on the individual class. Withdrawal from class anytime between the 20% and 65% points will be recorded as a "W" on the student's record.

**Drop with a "W" notation:** All courses dropped at the 20% point and up until the 65% point will be recorded on the transcript as a "W." Drops after the 65% point are not allowed except under narrowly defined extenuating circumstances. These situations must be due to substantiated illness, accident, or events beyond the student's control that prohibit continuation in classes. By law, all classes remaining on the student's record after the 65% point require that a grade be issued. For important deadlines for specific classes, students should log on to the Saddleback College website and locate their classes in the index of the current semester's class schedule.

## Withdrawal for Medical Reasons

The California Community College system does not have a provision for medical withdrawal. Students needing to drop or withdraw for medical reasons need to follow the above withdrawal procedure. Students should maintain documentation regarding the medical condition and be prepared to present the documents if necessary to financial aid.

**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

## 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 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](mailto: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](http://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 College

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

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

### Associated Student Government

The Associated Student Government (ASG) plans, organizes, promotes, sponsors, and finances a comprehensive program of activities and services for all Saddleback College students. Participating in ASG and Campus Clubs gives students the opportunity to learn valuable leadership, organizational, and communication skills which will enhance their college experience and provide a foundation for their future. ASG also 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](mailto: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, fast pitch 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](http://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](http://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](http://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 leader-ship 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 units 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 units, 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](http://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](http://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.

## Student Support Services

### Bookstore

A variety of reading materials, personal-use items, new and used textbooks, a large selection of college logo items, class supplies, and packets are available at the college bookstore. 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 works in collaboration with the County Social Services offices and other community agencies to support students achieve their academic goals. The CalWORKs program is committed to assisting students in developing their skills, knowledge, and experience that will enable them to become more marketable in the workforce after earning a certificate and/or college degree. Within the CalWORKs program students are provided with student success support services such as academic, personal and career counseling, work-study, priority registration, extended tutoring and much more. For office hours or more information, contact the CalWORKs office at (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** are 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 enrolled at the college. Furthermore, proper care for a child is often a determining factor in a parent's decision to attend and succeed in entering college or a career. The center provides an educational experience and includes activities such as art, music, cooking, language arts, and science. Children eligible for enrolling in the pre-school program must be at least 18 months of age and may remain in the program up to their entrance into kindergarten.

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

The center is located at the south end of the campus on College Drive East (Parking Area 1A). For more information call (949) 582-4582 or visit [www.saddleback.edu/cdc](http://www.saddleback.edu/cdc).

## 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

A Counseling class taught by counselors is highly recommended for all students. Topics include Academic or Educational Planning, Career Exploration, Helping Relationships, Human Relations, and/or Study Skills. Each course is intended to aid the individual's success both within and life beyond the Saddleback College experience.

## 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 video phone for the Deaf (949) 482-4430, or visit our website at [www.saddleback.edu/dsp](http://www.saddleback.edu/dsp).

Any concern regarding access to programs and services should be directed first to the Coordinator of DSPS (949) 582-4885 and second to the Dean of Student Equity and Special Programs (949) 582-4535, 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 privative 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 ID. 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 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.

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

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](http://www.fafsa.gov) or Dreamer students may apply for the California Dream Act Application online at <https://dream.csac.ca.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), the renewal application or the California Dream Act application. These applications are usually available beginning in October for the following academic year. If a student is interested in a State of California Grant, the FAFSA or California Dream Act application 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 application qualifies eligible students for both federal and state aid. The California Dream Act application is for Dreamer students who may be eligible for state aid programs only. These applications will be used to determine a student's eligibility 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 15 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 student loan at [www.saddleback.edu/fao/DirectLoanprogram.html](http://www.saddleback.edu/fao/DirectLoanprogram.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 are encouraged to submit 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/fao](http://www.saddleback.edu/fao).



**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 \$1672 for books and living expenses for the first year. Beginning with the second year of Cal Grant B benefits, this award also helps pay for tuition and fees at public or private four-year colleges or other qualifying institutions.

**Cal Grant B Competitive Awards** are for students who aren't eligible for the Entitlement awards. Awards are for students who have at least a 2.0 GPA, meet all the Cal Grant requirements and apply by either the March 2nd or September 2nd deadline. The award provides up to \$1672 for books and living expenses for the first year. Beginning with the second year of Cal Grant B benefits, this award also helps pay for tuition and fees at public or private four-year colleges or other qualifying institutions.

**Cal Grant C Awards** are available to assist students with tuition, fee, and training costs for occupational or vocational programs. The \$547 Cal Grant C award provides for books, tools, and equipment. To qualify for Cal Grant C awards, students must meet basic eligibility requirements and be enrolled in a vocational program that is at least four months in length. For more information, visit the California Student Aid Commission website at [www.csac.ca.gov](http://www.csac.ca.gov).

**The California Chafee Grant Program** gives up to \$5,000 annually in free money to foster youth and former foster youth to use for vocational school training or college courses. To apply, you must be eligible, or have been eligible for foster care, between your 16th and 18th birthday, and not have reached your 22nd birthday as of July 1 of the award year.

**Full Time Student Success Grant** is provided to Cal Grant B or C recipients who is enrolled in 12 or more units per semester.

**Community College Completion Grant** is provided to Cal Grant B or C recipients, who are also receiving the Full Time Student Success Grant and who is enrolled in 15 or more units. Eligibility is determined based on a student submitting a comprehensive MAP to the Financial Aid Office and the student maintaining pace in their program outlined on that MAP.

## Scholarships

Scholarships are like grants; they do not have to be repaid. The Financial Aid Office is the steward of a number of scholarships that may or may not require financial need. Applications are available in the Financial Aid Office. For information on scholarships, visit [www.saddleback.edu/fao/scholarship-information](http://www.saddleback.edu/fao/scholarship-information).

## Return of Title IV Funds (HEA)

Title IV funds are awarded to students under the assumption that they will attend school for the entire period for which the financial aid is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive.

"Return of Title IV funds" will require repayment of Title IV funds, (Federal Financial Aid).

Any aid recipient who needs to withdraw from all classes should contact the Admissions and Records Office and the Financial Aid Office. Recipients are encouraged to discuss alternatives to withdrawing from class(es) with their instructor(s) or a counselor before making a final decision.

For additional information on Title IV requirements, please contact the Student Financial Assistance Office, in the Student Services Center, Room 106, phone (949) 582-4860.

## Grant Over-Awards

There are occasions when students receive financial aid payments based upon misreported information. This results in a grant over award. Examples of misreported information include inaccurate or omitted income, prior loan defaults or grant overpayments, having a bachelor's degree, not having a high school diploma or GED, forged signatures, and unsatisfactory academic progress, just to name a few. Furthermore, students who change enrollment status prior to the financial aid freeze date each semester, after having been paid for those classes, may also be in over award status.

Students who receive grant funds and are later determined to be in over award status, as noted above are required to repay THE ENTIRE SUM RECEIVED.

## To Maintain Financial Aid Eligibility

In accordance with federal regulations, each student receiving financial aid is expected to maintain 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 BOGFW 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. Collects financial aid overpayments
3. Processes refund requests
4. Disburses financial aid checks
5. Processes payment deferral requests
6. 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](http://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 present a valid government issued ID for identity verification. For questions, contact the Office of Admissions and Records at (949) 582-4555 or [scadmissions@saddleback.edu](mailto:scadmissions@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.

For more information visit us in SSC 225B, call us at (949) 582-4328, visit our website at [www.saddleback.edu/transfer](http://www.saddleback.edu/transfer) or email us at [sctransfer@saddleback.edu](mailto:sctransfer@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 veterans' children who apply for VA education benefits to which they are entitled.

1. All students using VA education benefits are entitled to priority enrollment as long as they maintain satisfactory academic progress.
2. Colleges are required by VA to evaluate all VA students' previous education and training. Records of previous education and training are maintained in each VA student's file. All previous education and training for which credit is granted will be used in fulfillment of applicable course requirements and therefore shorten the training period proportionately. Students will be notified by their academic counselor of all prior education and training that is applicable to their programs.
3. Effective August 1, 2018, VA requires that VA students' monthly pay be based on the ZIP code of the location where they physically attend the majority of their classes. This includes off-campus locations. Please contact the Veterans Office for more information. The Veterans Office is located in the Student Services Center (SSC) room 208. The phone number is (949) 582-4870. This is a college services office, not a branch of the federal government.

The Military Tuition Assistance (MTA) program for active duty military personnel is also processed in the Veterans Office. MTA forms must be submitted to the Veterans Office, and must be signed by the active duty service member's commanding officer and military base education officer. This form is available at military bases' education offices.

## 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, veteran counseling, scholarship assistance, a link to the Veterans Student Council, veteran and active duty military outreach, counseling for dependents using CalVet Fee Waiver, Chapter 35 benefits, and other educational benefits, and a venue for community building. Saddleback College also offers a "Boots to Books" course which integrates veteran specific topics into the curriculum of Counseling 140 (3 units; CSU transferable). The VETS Program hosts events and outside partners focused on the service member's 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](http://www.saddleback.edu/vets), or email us at [vetsoutreach@saddleback.edu](mailto:vetsoutreach@saddleback.edu).

## **Rules and Regulations – Student's Rights and Responsibilities**

### **Rules and Regulations for Student Behavior**

Saddleback College students are responsible for regulating their own conduct and for respecting the rights and privileges of others in accordance with the Code of Conduct set by the district Board of Trustees (AR 5401). Saddleback students are expected to conduct themselves in a manner compatible with the function of the college as an educational institution and respect and obey all civil and criminal laws. Failure to show respect for the standards as set forth by Saddleback College is cause for disciplinary action.

### **Code of Conduct**

In compliance with California Education code Section 66300 and in keeping with the above, the following regulations have been established to effectively and efficiently guide the approved educational programs, approved student activities, and community services.

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

- A. 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 that 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 data 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).
    - e. sharing computer files and programs or written papers and then submitting individual copies of the results as one's own individual work.
    - f. submitting substantially the same material in more than one course without prior authorization from each instructor involved.
    - g. modifying another's work and representing it as one's own work.
  3. Cheating is the use of any unauthorized materials, or information in academic work, records or programs, the intentional failure to follow express directives in academic work, records or programs, and/or assisting others to do the same including, but not limited to, the following:
    - a. knowingly procuring, providing, or accepting unauthorized examination materials or study aids.
    - b. completing, in part or in total, any examination or assignment for another person.
    - c. knowingly allowing any examination or assignment to be completed, in part or in total, for himself or herself by another (e.g., take-home exams or on-line assignments which have been completed by someone other than the student).
    - d. copying from another student's test, paper, lab report or other academic assignment.
    - e. copying another student's test answers.
    - f. copying, or allowing another student to copy, a computer file that contains another student's assignment, homework lab reports, or computer programs and submitting it, in part or in its entirety, as one's own.
    - g. using unauthorized sources of information such as crib sheets, answers stored in a calculator, or unauthorized electronic devices.
    - h. storing answers in electronic devices and allowing other students to use the information without the consent of the instructor.
    - i. employing aids excluded by the instructor in undertaking course work.
    - j. looking at another student's exam during a test.
    - k. using texts or other reference materials (including dictionaries) when not authorized to do so.
    - l. knowingly gaining access to unauthorized data.
    - m. altering graded class assignments or examinations and then resubmitting them for regrading or reconsideration without the knowledge and consent of the instructor.
- R. Contravention of Copyright Laws.
- S. Violation of District Board Policies and Administrative Regulations.

## 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. 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 cause as provided in Section III. Suspension may involve:
  - a. Removal from one or more classes for the remainder of the academic term.
  - b. Removal from all classes and activities of the District for one or more terms. During this time, the student may not be enrolled in any class or program within the District.
6. Expulsion: The Board of Trustees may expel a student for cause as provided in Section III when other means of correction fail to bring about proper conduct or when the presence of the student causes a continuing danger to the physical safety of the student or others. Expulsion will be accompanied by a hearing conducted by the Disciplinary Hearing Panel.

**Appeal Process**

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 not 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.  
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:
  - a. 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.
  - b. 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.
  - c. 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; or
- 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.
- An individual who feels they have been subjected to sexual assault may file a complaint with the police department or the designated Title IX Officer for Saddleback College: Vice President for Student Services (949) 582-4566



## 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](http://www.saddleback.edu)

**South Orange County Community College District** - [www.socccd.edu/hr/HRforms.asp](http://www.socccd.edu/hr/HRforms.asp)

**California Community Colleges Chancellor's Office** - [www.cccco.edu](http://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, which is available on-line at the Vice President for Student Services website: <http://www.saddleback.edu/vpss>. The brochure is also available for downloading from the SOCCCD website: [www.socccd.edu/hr/HRforms.asp](http://www.socccd.edu/hr/HRforms.asp).

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, Student Services Center, Room 113. Formal complaints may be filed with Dean of Student Equity and Special Programs, ADA/504 Officer. The office is located in the Student Services Center, Room 140G. For more information, please call (949) 582-4535.

## 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 on request.

Formal complaints may be filed with the Dean of Student Equity and Special Programs, Student Services Center, SSC 140G, (949) 582-4535.

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 593000 et. Seq. If, pursuant to the discrimination and harassment complaint procedure it is determined that a grade was the results of discrimination or harassment the grade may be changed as a remedy for the discrimination or harassment.

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

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

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

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

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

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

### III. Informal Resolution

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

### IV. Formal Grievance Process

#### A. Written Statement of Grievance

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

#### B. Request for a Grievance Hearing

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

### 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

- A. 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.
- B. 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.
- C. 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.
- D. 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.
- E. 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 District- that is by receiving a letter grade of "A", "B", "C", "D", "F", "P"(C), "NP" (NC), "RD", "W", "MW", or "I" on their transcripts for at least one course per academic year.

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

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

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

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

## Student Right-to-Know Disclosure

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Section 414:** No vehicle shall be left parked on campus after 11p.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 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.



## Rules and Regulations – Academic Regulations

### Grading Policy

In Sections 55020 to 55025 of the California Code of Regulations (Title 5), the Board of Governors of the California Community Colleges mandates a grading policy for all California Community Colleges. In compliance with this mandate, the South Orange County Community College District Board of Trustees has established the following provisions under Board Policy 5300 entitled "Grading Policy."

### Academic Record Symbols and Grade-point Average (GPA)

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

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

### Non-Evaluative Symbol

<b>I</b>	<p>Incomplete academic work for unforeseeable and justifiable reasons at the end of the term may result in an "I" symbol being entered in the student's record. The condition for removal of the "I" and the grade to be assigned in lieu of its removal is stated by the instructor in a written record at the conclusion of the class. A copy of the record is given to the student and the original is filed in the Office of Admissions and Records. A final grade is assigned when the work stipulated has been completed and evaluated or when the time limit for completing the work has passed. The "I" may be made up no later than one year following the end of the term in which it was assigned. A student may petition for an extension of time due to unusual circumstances before the time limit has passed. Petitions may be submitted to the Office of Admissions and Records.</p> <p>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.</p>
<b>W</b>	<p>Withdrawal from class or classes shall be authorized through 65% of a term. The academic record of a student who remains in a class beyond 65% of a term must reflect a symbol as authorized in this section, other than a "W." Students are limited to a total of three withdrawals in a given course.</p> <p>No notation ("W" or other) shall be made on the academic record of a student who withdraws during the first 20% of the course.</p> <p>Withdrawal between the 20% and 65% of a term, shall be recorded as a "W" on the student's record.</p> <p>The "W" shall not be used in calculating grade-point averages, but excessive "Ws" shall be used as factors in progress probation and dismissal procedures. A student may request permission to withdraw from a class after 65% of the length of the class by following the petition procedure in the Office of Admissions and Records. All requests for this exception shall include complete written details of the circumstances and only extreme emergency reasons clearly beyond the control of the student shall be considered.</p> <p>Petitions for this exception must be received <b>within the 45 day window</b> for grade appeal after final grades are posted for a given semester.</p>
<b>MW</b>	<p>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 any time 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.</p>
<b>IP</b>	<p>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.</p>
<b>SP</b>	<p>Satisfactory Progress (non-credit courses only). The "SP" symbol shall be used to denote that the student is making satisfactory progress in a non-credit course, but has not completed sufficient course work to be graded or demonstrated sufficient competency to be awarded a grade.</p>

## 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 units 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 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).

## Repeatable 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 the 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](http://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](http://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.

#### **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](http://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,  
or
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 units\* or 3.5 in at least 6 units of letter-graded courses in any one semester will be eligible for the honor of being placed on the Dean's List. Continued excellence in scholarship may result in graduation with honors.

\*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 from 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](http://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 cumulative grade point average is 2.0 or higher.

### Progress Probation

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

### First Time Probation

A student on First Time probation must attend a Probation Workshop to have the PB Hold removed and be eligible for course enrollment.

### Dismissal

A student whose cumulative grade point average falls below 1.75 in three consecutive semesters at Saddleback College and/or Irvine Valley College shall be subject to dismissal.

A student who has been placed on progress probation shall be subject to dismissal if the percentage of units in which the student has been enrolled for which entries of "W," "I" and "NP" (NC) are recorded in three consecutive semesters reaches or exceeds 50 percent.

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

### Readmission After Dismissal

Students who have been dismissed from Saddleback College or Irvine Valley College may apply for a readmission review after one semester of non-attendance by following the petition procedures through the Office of Admission and Records located in the Student Services Center Room 102. Students who are readmitted and fail to maintain a grade point average of 1.75 or higher during the semester following readmission will be subject to permanent dismissal.

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

### Academic Renewal

Under certain circumstances, students may elect to have previously completed courses disregarded in the computation of their cumulative grade point average (GPA). This process is known as academic renewal, defined in accordance with Title 5, California Code of Regulations, Section 55046.

Students must complete the following requirements:

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. Work from other accredited colleges may be considered for calculating their GPA.
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.

Academic renewal by the South Orange County Community College District does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institutions.

Academic renewal procedures may not conflict with the District's obligation to retain and destroy records or with the instructor's ability to determine a student's final grade.

### 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.

## Load Limit

Students are allowed to carry a maximum of 19 units per term, not including work experience or independent study. In order for a student to be considered for additional units beyond 19, he/she must have a cumulative 3.0 grade point average. Overload Petitions must be completed and returned to the Counseling Office.

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

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

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

## Remedial Coursework Limit

No more than 30 semester units of credit may be awarded to a student for remedial coursework. Courses in this category include English, reading, and writing courses one level below transfer-level composition (ENG 1A) and mathematics courses below intermediate algebra (MATH 253).

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.

## 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.

## 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.

## Access to Records and Release of Information

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

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

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

Saddleback College regards as public information:

1. Terms for which a student is enrolled
2. The enrollment status (full time, part time, as defined by financial aid regulations) for the term in which the student is enrolled
3. Declared major



4. Participation in officially recognized activities and sports including weight, height, and high school of graduation of athletic team members.
5. Degrees and awards received including honors, scholarship awards, athletic award and Dean's List recognition.

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.

## Credit for Prior Learning

### Advanced Placement (AP) Exam

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.

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.

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.

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

### College Credit for AP Exams

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

Advanced Placement Exam	Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units	CSU GE Certification Area/Semester Units	CSU Minimum Admission Semester Units	IGETC Certification Area/Semester Units	UC Admissions Semester Units
<b>Art History</b>	Humanities – 3	Area C1 or C2 3	6	Area 3A or 3B 3	5.3
<b>Art, Studio – 2D Design</b> <b>Art, Studio – 3D Design</b> <b>Art, Studio – Drawing</b>	Elective – 3 Elective – 3 Elective – 3	N/A	3	N/A	5.3 (Max for all Studio Art Exams)
<b>Biology</b>	Natural Sciences – 4 Credit for BIO 20	Area B2 and B3 4	6	Area 5B and 5C (lab) 4	5.3
<b>Chemistry</b>	Natural Sciences – 4 Credit for CHEM 3	Area B1 and B3 4	6	Area 5A and 5C (lab) 4	5.3
<b>Chinese – Language &amp; Culture</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A 3	5.3
<b>Computer Science – A Exam</b>	Elective – 3	N/A	3 (only one CS Exam may be applied)	N/A	1.3
<b>Computer Science – AB Exam Only</b>	N/A	N/A	6 (only one CS Exam may be applied)	N/A	2.7
<b>Computer Science – Principles</b>	Elective – 3	B4	6 (only one CS exam may be applied)	N/A	5.3
<b>Economics – Macro Exam</b>	Social/Behavioral Sciences – 3 Credit for ECON 20 with a score of 3 or 4. Credit for ECON 2 with a score of 5.	Area D2 3	3	Area 4 3	2.7

Advanced Placement Exam	Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units	CSU GE Certification Area/Semester Units	CSU Minimum Admission Semester Units	IGETC Certification Area/Semester Units	UC Admissions Semester Units
<b>Economics – Micro Exam</b>	Social/Behavioral Sciences 3 Credit for ECON 20 with a score of 3 or 4. Credit for ECON 2 with a score of 5.	Area D2 3	3	Area 4 3	2.7
<b>English – Language and Composition</b>	Language and Rationality 3 Credit for ENG 1A and Matriculation placement in ENG 1B/1BH	Area A2 3	6	Area 1A 3	5.3 (max credit for both English Lang/Comp & Lit/Comp)
<b>English – Literature and Composition</b>	Language and Rationality or Humanities 3 Credit for ENG 1A and 2 elective units and Matriculation placement in ENG 1B/1BH	Area A2 and C2 6	6	Area 1A or 3B 3	5.3 (max credit for both English Lang/Comp & Lit/Comp)
<b>Environmental Science</b>	Natural Sciences – 4	Area B1 and B3 4	4	Area 5A and 5C (lab) 3	2.7
<b>French – Language &amp; Culture</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A 3	5.3
<b>French – Literature</b>	Humanities – 3	Area C2 3 (Only applies if taken before Fall '09)	6 (only applies if taken before Fall '09)	Area 3B and 6A 3	5.3
<b>German – Language &amp; Culture</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A 3	5.3
<b>Government and Politics – United States</b>	Social/Behavioral Sciences – 3	Area D8 and US-2 3	3	Area 4 and US-2 3	2.7
<b>Government and Politics – Comparative</b>	Social/Behavioral Sciences – 3 3 Credit for PS 12 with a score of 5	Area D8 and US-2 3	3	Area 4 3	2.7
<b>History – United States</b>	Social/Behavioral Sciences – 3 3 Credit for HIST 22	(C2 & US-1) or (D6 & US-1) 3	6	Area 3B or 4 and US-1 3	5.3
<b>History – European</b>	Social/Behavioral Sciences or Humanities – 3	Area C2 or D6 3	6	Area 3B or 4 3	5.3
<b>History – World</b>	Social/Behavioral Sciences or Humanities – 3 3 Credit for HIST 5	Area C2 or D6 3	6	Area 3B or 4 3	5.3
<b>Human Geography</b>	Social/Behavioral Sciences – 3	Area D5 3	3	Area 4 3	2.7
<b>Italian – Language &amp; Culture</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A 3	5.3
<b>Japanese – Language &amp; Culture</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A 3	5.3
<b>Latin – Vergil</b>	Humanities – 3	Area C2 3 (only applies if taken before Fall 12)	3 (only applies if taken before Fall 12)	Area 3B and 6A 3	2.7
<b>Latin – Literature</b>	Humanities – 3	Area C2 3 (6 only applies if taken before Fall 09)	6 (only applies if taken before Fall 09)	Area 3B and 6A 3	2.7
<b>Latin</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A	

Advanced Placement Exam	Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units	CSU GE Certification Area/Semester Units	CSU Minimum Admission Semester Units	IGETC Certification Area/Semester Units	UC Admissions Semester Units
<b>Mathematics – Calculus AB Exam</b>	Language Rationality – 3 Credit for MATH 2 and Matriculation placement in MATH 3A/3AH with a score of 3. Credit for MATH 3A and Matriculation placement in MATH 3B with a score of 4 or 5.	Area B4 3	3 (only one Calculus AP exam applied toward degree)	Area 2A 3	2.7 5.3 max if more than one AP exam in Calculus
<b>Mathematics – Calculus BC Exam</b>	Language and Rationality – 3 Credit for MATH 3A and Matriculation placement in MATH 3B with a score of 3. Credit for MATH 3A and MATH 3B and Matriculation placement in MATH 3C with a score of 4 or 5.	Area B4 3	6 (only one Calculus AP exam applied toward degree)	Area 2A 3	2.7 5.3 max if more than one AP exam in Calculus
<b>Mathematics – Calculus BC/AB Subscore</b>	Language and Rationality – 3	Area B4 3	3 (only one Calculus AP exam applied toward degree)	Area 2A 3	2.7 5.3 max if more than one AP exam in Calculus
<b>Music Theory</b>	Humanities – 3	Area C1 3 (only applies if taken before Fall 09)	6 (only applies if taken before Fall 09)		5.3
<b>Physics 1</b>	Natural Sciences – 4 Credit for PHYS 2A	Areas B1 and B3 4 If more than one AP exam in Physics, only 4 units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 3	2.7 5.3 max if more than one AP exam in Physics
<b>Physics 2</b>	Natural Sciences – 4	Areas B1 and B3 4 If more than one AP exam in Physics, only 4 units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 3	2.7 5.3 max if more than one AP exam in Physics
<b>Physics C – Mechanics</b>	Natural Sciences – 4	Areas B1 and B3 4 If more than one AP exam in Physics, only 4 units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 3	2.7 5.3 max if more than one AP exam in Physics
<b>Physics C – Electricity/Magnetism</b>	Natural Sciences – 4	Areas B1 and B3 4 If more than one AP exam in Physics, only 4 units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 3	2.7 5.3 max if more than one AP exam in Physics
<b>Psychology</b>	Social/Behavioral Sciences – 3 Credit for PSYC 1	Area D9 3	3	Area 4 3	2.7
<b>Spanish – Language and Culture</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A 3	5.3
<b>Spanish – Literature and Culture</b>	Humanities – 3	Area C2 3	6	Area 3B and 6A 3	5.3
<b>Statistics</b>	Language and Rationality – 3 Credit for MATH 10 with a score of 3 upon <b>proof</b> of MATH 253, or 255 or equivalent, (e.g., two years of high school algebra) completed with a "C" or better	Area B4 3	3	Area 2A 3	2.7

**Note:** In some cases, credit towards specific major requirements is also awarded by the UC/CSU campuses. Refer to the catalog of the campus of intended transfer for further information.

## International Baccalaureate (IB) Exam

For IB 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 IB exam scores and processing of an International Baccalaureate Examination Credit Petition. Admissions and Records evaluators will assign IB Exam credit as applicable when a student applies for a degree, CSU G.E. or IGETC certification.

All California State University (CSU) campuses will accept the minimum units as stipulated below 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. CSU GE: The IB examinations may be incorporated into the certification of CSU General Education Breadth requirements by any certifying institution. All CSU campuses will accept the minimum shown and apply them toward fulfillment of the Education Breadth requirements.

All University of California (UC) campuses will accept the minimum units as stipulated below 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. 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 posted on <http://admission.universityofcalifornia.edu/counselors/exam-credit/ib-credits/index.html>

IB credit granted by Saddleback College for either elective or specific course credit does not necessarily transfer as such to other colleges or universities. Students planning to use IB credit toward transfer requirements will need to consult with appropriate campus representatives of the transfer institution for specific information regarding its policies and procedures.

## College Credit for IB Exams

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

EXAM	SADDLEBACK COLLEGE AA/AS CREDIT FOR GE	CSU PASSING SCORE	CSU GE	CSU - SEM UNITS EARNED TOWARD TRANSFER	IGETC	UC - SEM UNITS EARNED TOWARD TRANSFER
<b>IB BIOLOGY HL</b>	3 Natural Science No Lab	5	AREA B2 (without Lab) 3	6	AREA 5B (without Lab) 3	5.3
<b>IB CHEMISTRY HL</b>	3 Natural Science No Lab	5	AREA B1 (without Lab) 3	6	AREA 5A (without Lab) 3	5.3
<b>IB ECONOMICS HL</b>	3 Social and Behavioral Sciences Area 3A	5	AREA D2 3	6	AREA 4B 3	5.3
<b>IB GEOGRAPHY HL</b>	3 Natural Science	5	AREA D5 3	6	AREA 4E 3	5.3
<b>IB HISTORY (ANY REGION) HL</b>	3 Social and Behavioral Sciences Area 3A	5	AREA C2 or D6 3	6	AREA 3B or 4F 3	5.3
<b>IB LANGUAGE A1 (ENGLISH) HL</b>	3 Fine Arts and Humanities Area 1B	4	AREA C2* 3	6 *	AREA 3B 3	5.3
<b>IB LANGUAGE A1 (ANY OTHER LANGUAGE) HL</b>	3 Fine Arts and Humanities Area 1B	4	AREA C2* 3	6 *	AREA 3B & 6A 3	5.3
<b>IB LANGUAGE A2 (ENGLISH) HL</b>	3 Fine Arts and Humanities Area 1B	4	AREA C2* 3	6 *	AREA 3B 3	5.3
<b>IB LANGUAGE A2 (ANY OTHER LANGUAGE) HL</b>	3 Fine Arts and Humanities Area 1B	4	AREA C2* 3	6 *	AREA 3B & 6A 3	5.3
<b>IB LANGUAGE A LITERATURE HL</b>	3 Fine Arts and Humanities	4	Area C2* 3	6	Area 3B 3	5.3
<b>IB LANGUAGE B (ANY LANGUAGE) HL</b>	3 Fine Arts and Humanities Area 1B	4	N/A 0	6 *	AREA 6A 3	5.3

EXAM	SADDLEBACK COLLEGE AA/AS CREDIT FOR GE	CSU PASSING SCORE	CSU GE	CSU - SEM UNITS EARNED TOWARD TRANSFER	IGETC	UC - SEM UNITS EARNED TOWARD TRANSFER
<b>IB MATHEMATICS HL</b>	3 Mathematics Area 2B	4	AREA B4* 3	6 *	AREA 2A 3	5.3
<b>IB PHYSICS</b>	3 Natural Science No Lab	5	AREA B1 (without Lab) 3	6	AREA 5A (without Lab) 3	5.3
<b>IB PSYCHOLOGY</b>	3 Social and Behavioral Sciences Area 3A	5	AREA D9 3	3	AREA 4J 3	5.3
<b>IB THEATRE HL</b>	3 Fine Arts and Humanities Area 1A	4	AREA C1* 3	6 *	AREA 3A 3	5.3

## College-Level Examination Program (CLEP)

Saddleback College accepts CLEP exams as credit for some General Education requirements. 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 Curriculum (IGETC) requirements (see CLEP chart below).

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

**\*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 units are earned^.

EXAM	SADDLEBACK COLLEGE AA/AS CREDIT FOR GE	MINIMUM SEMESTER TRANSFER CREDITS EARNED	CSU CERTIFICATION AREA/SEMESTER UNITS
<b>CLEP American Government</b>	3 units Social and Behavioral Sciences Area 3B	3	Area D8 3 units
<b>CLEP American Literature</b>	3 units Fine Arts and Humanities Area 1B	3	Area C2 3 units
<b>CLEP Analyzing and Interpreting Literature</b>	3 units Fine Arts and Humanities Area 1B	3	Area C2 3 units
<b>CLEP Biology</b>	Undergoing Department Review	3	Area B2 3 units
<b>CLEP Calculus</b>	3 units Mathematics Area 2B Placement MATH 3B	3	Area B4 3 units
<b>CLEP Chemistry</b>	Undergoing Department Review	3	Area B1 3 units
<b>CLEP College Algebra</b>	3 units Mathematics Area 2B Placement Transfer Level Math	3	Area B4 3 units



EXAM	SADDLEBACK COLLEGE AA/AS CREDIT FOR GE	MINIMUM SEMESTER TRANSFER CREDITS EARNED	CSU CERTIFICATION AREA/SEMESTER UNITS
<b>CLEP College Algebra – Trigonometry</b>	3 units Mathematics Area 2B Placement Transfer Level Math	3	Area B4 3 units
<b>CLEP College Mathematics</b>		0	N/A
<b>CLEP English Composition (No Essay)</b>		0	N/A
<b>CLEP English Composition with Essay</b>		0	N/A
<b>CLEP English Literature</b>	3 units Fine Arts and Humanities Area 1B	3	Area C2 3 units
<b>CLEP Financial Accounting</b>		3	N/A
<b>CLEP French* Level I</b>	3 units Fine Arts and Humanities Area 1B	6	N/A
<b>CLEP French* Level II</b>	3 units Fine Arts and Humanities Area 1B	<b>12<sup>^</sup></b>	Area C2 <b>3 units with score of 59</b>
<b>CLEP Freshman College Composition</b>		0	N/A
<b>CLEP German* Level I</b>	3 units Fine Arts and Humanities Area 1B	6	N/A
<b>CLEP German* Level II</b>	3 units Fine Arts and Humanities Area 1B	<b>12<sup>^</sup></b>	Area C2 <b>3 units with score of 60</b>
<b>CLEP History, United States I</b>	3 units Social and Behavioral Sciences Area 3B	3	D6 + US - 1 3 units
<b>CLEP History, United States II</b>	3 units Social and Behavioral Sciences Area 3B OR 3 units 3A	3	D6 + US - 1 3 units
<b>CLEP Human Growth and Development</b>	3 units Social and Behavioral Sciences Area 3A	3	Area E 3 units
<b>CLEP Humanities</b>	3 units Fine Arts and Humanities Area 1B	3	Area C2 3 units
<b>CLEP Information Systems and Computer Applications</b>		3	N/A
<b>CLEP Introduction to Educational Psychology</b>		3	N/A
<b>CLEP Introductory Business Law</b>		3	N/A
<b>CLEP Introductory to Psychology</b>	3 units Social and Behavioral Sciences Area 3A	3	Area D9 3 units
<b>CLEP Introductory to Sociology</b>	3 units Social and Behavioral Sciences Area 3A	3	Area D0 3 units
<b>CLEP Natural Science</b>	3 units Natural Science including Lab	3	Area B1 or B2 3 units
<b>CLEP Pre-Calculus</b>	3 units Mathematics Area 2B Placement Math 3A	3	Area B4 3 units

EXAM	SADDLEBACK COLLEGE AA/AS CREDIT FOR GE	MINIMUM SEMESTER TRANSFER CREDITS EARNED	CSU CERTIFICATION AREA/SEMESTER UNITS
<b>CLEP Principles of Accounting</b>		3	N/A
<b>CLEP Principles of Macro Economics</b>	3 units Social and Behavioral Sciences Area 3A	3	Area D2 3 units
<b>CLEP Principles of Management</b>		3	N/A
<b>CLEP Principles of Marketing</b>		3	N/A
<b>CLEP Principles of Micro Economics</b>	3 units Social and Behavioral Sciences Area 3A	3	Area D2 3 units
<b>CLEP Social Sciences and History</b>		0	N/A
<b>CLEP Spanish* Level I</b>	3 units Fine Arts and Humanities Area 1B	6	N/A
<b>CLEP Spanish* Level II</b>	3 units Fine Arts and Humanities Area 1B	<b>12^</b>	Area C2 <b>3 units with score of 63</b>
<b>CLEP Trigonometry</b>	3 units Mathematics Area 2B Placement MATH 2	3	Area B4 3 units
<b>CLEP Western Civilization I</b>	3 units Fine Arts and Humanities Area 1B	3	Area C2 or D6 3 units
<b>CLEP Western Civilization II</b>	3 units Fine Arts and Humanities Area 1B	3	Area D6 3 units

## Military Service Credit

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

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

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

Saddleback College veterans' counselors are your primary source of information regarding academic planning, veteran's resources, and career and personal counseling. They are located in the college VETS Center and are available for scheduled appointments and walk-in sessions. VA students will need to get a My Academic Plan (MAP) completed by one of these counselors in order 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.

## Credit by Examination – Post Secondary Specific Course Credit

College Examinations - The procedures for securing permission to obtain Post-Secondary Credit by Examination for a course are as follows:

1. The course appears in a current catalog for the District's colleges, and the currently enrolled student has not received previous high school or college credit, attempted credit by examination, or has never enrolled in the course for which Credit by Exam is being requested. Additionally, the course 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 a prerequisite to one for which credit has been received.

2. The student obtains a Credit by Examination petition form from the Office of Admissions and Records.
3. The student contacts an instructor who teaches the course for which Credit by Examination is requested. If it is the judgment of that instructor that the course content can be tested by examination, and that the student possesses sufficient background, previous training and/or skill to attempt the examination, the instructor signs the form.
4. The student, following policies and procedures developed within the department, obtains the signature of the division/school dean.
5. Following division/school endorsement, the request is forwarded to the Vice President of Instruction for signature.
6. The initiating instructor prepares, administers and grades the examination.
7. 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. Once assigned, a grade is not reversible.
8. The student will pay the enrollment fee for the course for which Credit by Exam is obtained.

## **SECONDARY (HIGH SCHOOL TO COLLEGE ARTICULATION) / CREDIT BY EXAMINATION**

High school students may be granted college credit pursuant to established CTE articulation agreements between the high school or Regional Occupation Program (ROP) and the applicable college.

The student will apply online to one of the colleges in the SOCCCD. There is no requirement to be currently registered to receive credit.

A letter grade may be assigned and the course will be identified as "Credit by Examination" on the transcript in accordance with official grading assignment on the Course Outline of Record (COR). Once assigned, a grade is not reversible.

The enrollment fee for credit by examination will not be charged for credit awarded under this provision.

Students who are unsuccessful in obtaining a standard grade of B or better will not be allowed to petition for credit and no record of the attempt for credit by examination will appear on a student's 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.

### **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.

## 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](http://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 or by petition to a faculty member within the department of the student's major. Applications are available in the Division of Business Science, Economic Workforce Development office.

### 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, College and Career Advantage, Coastline ROP, JSerra Catholic High School and New Vista School. 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, Real Estate and Theater Arts. For a complete listing, see the CTE Transitions website at [www.saddleback.edu/cte](http://www.saddleback.edu/cte).

Students who successfully 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 receive Credit by Exam units for the corresponding Saddleback College class. The credit will be posted to their official Saddleback College transcript. Eligible students should make an appointment with a Saddleback College counselor. 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.

### 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.

The Emeritus Institute curriculum is offered as non-credit courses. These courses are all designed to meet the academic and critical-thinking challenges of each discipline. Disciplines include Accounting, Art, Biology, Communication Arts, English, Fashion, Foreign Language, Geology, Gerontology, History, Health, Health Sciences, Humanities, Kinesiology, Music, Philosophy, Photography, Political Science, and Theatre.

For further information regarding the Emeritus Institute program call (949) 582-4936 or 770-9669 or access our website at [www.saddleback.edu/emeritus](http://www.saddleback.edu/emeritus).

### 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](http://www.saddleback.edu/la/study-abroad-program).

## 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.
- Walk-In Honors Students are those taking one or two Honors classes because of an interest in the subject, the wish to work with the professor, curiosity about Honors, or other reasons.

Changing from Walk-In to Certificate-Track Status is possible, but a deadline does exist. Students lose the right to apply for Certificate-Track status after they complete two Honors courses at Saddleback College. An application must be filed before that point in order to preserve eligibility for eventual admission, even if admission is not granted at that point.

Applications are accepted year-round, but there are deadlines for eligibility for priority registration application. See [www.saddleback.edu/honors](http://www.saddleback.edu/honors) for this year’s dates. Students should apply as soon as possible regardless of the priority registration dates in order to be eligible for other benefits.

### 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](http://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.

Students who do not meet the GPA minimum are welcome to apply, but should address their academic history in their application and discuss the reasons they are confident of success.

### 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.

For further Information call (949) 582-4853, email [schonorsprogram@saddleback.edu](mailto:schonorsprogram@saddleback.edu), or visit [www.saddleback.edu/honors](http://www.saddleback.edu/honors).

## Graduation Requirements

Students are responsible for applying for Graduation. Degrees and certificates are not awarded automatically. Students should apply online in MySite during the final semester. 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
- November 1\* for fall graduation

\*Associate Degree for Transfer deadlines may be different. Please see a Counselor for more information.

### Associate in Arts (AA) and Associate in Science (AS) Degree

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

- I. Unit Requirement:** Units of Course Credit – minimum 60 units. Courses numbered 1-299 at Saddleback are applicable towards the AA and AS degrees. Students may apply only one course below transferable freshman composition ENG 1A toward the Associate Degree.
- 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 units must be completed in residence at Saddleback College.
- IV. General Education Requirement:** Students are advised to consult a Saddleback College counselor for assistance in developing an educational plan prior to choosing their general education pattern and degree. A single course may be used to satisfy both a general education and major requirement. Complete 1, 2, or 3:
  1. Associate Degree – General Education Requirements (see “Associate Degree General Education Requirement” below) or
  2. The California State University General Education Breadth Certification pattern, or
  3. The Intersegmental General Education Transfer Curriculum pattern
- V. Major Requirement:** All courses must be completed with a grade of “C” or better. (Title 5 section 55063)
  1. Complete an Associate degree program as described in the Saddleback College catalog

### Associate 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 or 1H
- 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 ENG 340 do not apply to the associate degree
- B. Evidence of one of the following standardized examination scores:
1. A score of 30-37 on the CTEP Reading Test.
  2. 400 or above on the Critical reading section of the SAT
  3. 19 or above on the ACT Reading Test
  4. A score of 35-39 percentile on the Comprehension section of the Nelson-Denny Reading Test, Form H or equivalent

**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.

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

ANTH 2 or 2H, 3, 4*, 6, 8	ES (formerly CSS) 1*, 2*, 3*, 10*
BUS 102	FCS 115
CDE 7 (formerly CD 7, 107) or 7H	FN 50
CIM 1, 10	HIST 4, 5, 12, 16, 17, 32
CIMW 115	LIB 2 or 2H, 100, 101
DANC 64	N 176
ENG 1B OR 1BH, 70	PSYC 1 or 1H, 2 or 2H, 7
ENV 1, 18	SP 1 or 1H, 2, 3

**Note: Courses used to fulfill any competency requirement may also apply to our course or breadth requirements**

**Breadth Requirements**

Breadth requirements provide students with the knowledge they need:

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

**1. FINE ARTS AND HUMANITIES**

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

**Group A. The Arts, Music, Theatre**

**One course from the following:**

ARCH 12	GD 1
ART 4	HORT 115
ARTH 20, 21, 22, 23, 24*, 25, 26, 27, 28, 29, 30, 32	ID 110, 122, 125
CTVR 2, 3, 7*, 9	MUS 1, 20, 23*, 24, 25, 26, 27*, 28, 29
DANC 64, 74*	PHOT 25
FASH 144	SP 32
FA 27	TA 20, 22, 25, 26, 32, 110*

**Group B. Literature, Philosophy, History, Religion, and Foreign Language****One course from the following:**

ARAB 1, 2, 3, 4, 10, 21	JA 1, 2, 3, 4, 21
CHI 1, 2, 3, 4, 21	KOR 1, 2, 3, 4, 21
ENG 3, 4, 5, 15A, 15B, 17A, 17B, 18, 19, 20, 21A, 21B, 22, 23A*, 24*, 25, 27A or 27AH, 27B, 27E, 44, 50, 52, 142	PHIL 1 or 1H, 2, 5, 10, 14, 15
FR 1, 2, 3, 4, 21	PORT 1, 2, 3, 4, 21
GER 1,2, 3, 4	PRSN 1, 2, 3, 4, 21 (formerly 121)
HEBR 1, 2, 3	SL 1, 2, 3, 4, 101*
HIST 4, 5	SPAN 1 (or 1A and 1B) or 1H, 2 or 2H, 3, 4, 10, 11, 20A, 20B, 21A, 21B, 21C*
HON 11H, 12H, 13H, 14H, 15H, 16H	SP 30
HUM 1, 3, 10A, 10B, 21, 22, 25	SP TA 30
ITA 1, 2, 3, 4, 21	

**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 or 1H 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	GEOL 1, 20, 23
BIO 3A or 3AH, 3B or 3BH, 4A, 4B, 11, 15, 19, 20, 31, 113	HORT 20
CHEM 1A, 2, 3, 13, 108	MS 4, 20
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	HIST 12, 19, 20, 21*, 27, 28, 30, 32, 33*, 61, 62, 63, 70, 71, 72, 73, 74, 75, 80, 81*
BUS 1 or 1H	HS 100, 120, 131*, 186
CDE 7+ (formerly CD 7, 107), or 7H, 15 (formerly CD 15, 105)	JRN 1
CTVR 1	PS 4, 10H, 11, 12, 14
ECON 2 or 2H, 4 or 4H, 11, 20	PSYC 1 or 1H, 7+, 16*, 21, 125
ENV 1	SOC 1, 2, 6*, 10, 15, 21, 25, 125, 126+
ES 1*, 2*, 3*, 10*	SP 8, 20*
GEOG 2 or 2H, 3, 38	WS 10 or 10H, 11H (formerly 111H), 15, 40
GLST 1, 2	

+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	HLTH 1, 3
BUS 16 (former BUS 116)	HS 170, 175
CDE 7+ (formerly CD 7, 107) or 7H, 117*	N 161, 165
COUN 1, 140, 150, 151, 160	PSYC 5, 7+, 33
FCS 115, 142	SOC 126+, 180
FASH 141	SPS 115, 205
FN 50, 64	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**

- CDE 120 (formerly CD 120)
- ENG 1B or 1BH, 70 (both courses also apply for the Reading Competency requirement)
- LIB 2H
- 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 (\*).

**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: <http://www.saddleback.edu/uploads/iso/foreigntranscriptevaluators.pdf>



## 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 the Office of Admissions and Records. The Certificate of Achievement is issued upon the completion of the following:

1. The required courses and units in the certificate area. If using approved waivers or substitutions, the minimum units are still required as listed.
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. The application for Certificates of Achievement may be found online in MySite.

## Certificate of Completion

For students completing noncredit courses in a prescribed pathway, approved by the Chancellor's Office, leading to improved employability or job opportunities, a certificate of completion may be awarded. A noncredit certificate of completion means a document confirming that a student has completed a noncredit educational program of noncredit courses that prepares him or her to progress in a career path or to take degree-applicable credit courses.

It is the student's responsibility to make a formal application for the Certificate of Completion to the Office of Admissions and Records. The application for the Certificate of Completion may be found online in MySite.

## Certificate of Competency

For students completing noncredit courses in a prescribed pathway, approved by the Chancellor's Office, that prepares students to take credit coursework, including basic skills and ESL, a certificate of competency may be awarded. A noncredit certificate of competency means a document confirming that a student enrolled in a noncredit educational program of noncredit courses has demonstrated achievement in a set of competencies that prepares him or her to progress in a career path or to undertake degree-applicable or nondegree-applicable credit courses.

It is the student's responsibility to make a formal application for the Certificate of Competency 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. At least one course required in 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. The application for Occupational Skills Award may be found online in MySite.

## 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

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. 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).

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 <http://www.adegreewithaguarantee.com/en-us/abouttheprogram/findyourpath.aspx> or [www.saddleback.edu/articulation](http://www.saddleback.edu/articulation). 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. 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.

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

1. A minimum of 60 CSU-transferable semester units. Courses numbered 1-199 at Saddleback are applicable towards the AA-T and AS-T degrees;
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.

## Degrees, Certificates, and Awards

Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
<b>Accounting</b>								70-72
Accounting				●	●			70
Computerized Accounting Specialist				●	●			70
Tax Preparation				●	●			71
<b>Administrative Assistant</b>				●	●			72
<b>Advanced Manufacturing</b>				●	●			74
<b>American Sign Language</b>				●	●			75
<b>Anthropology</b>	●	●						76
<b>Architectural Drafting</b>								78-80
Architectural Drafting				●	●			78
Construction Inspection				●	●			78,80
<b>Art</b>								80-81
Art		●						80
Studio Arts	●							80
<b>Art History</b>	●							81
<b>Astronomy</b>				●				82
<b>Automotive Technology</b>								82-87
Alternative Fuel Vehicle Specialist				●	●			82,85
Automotive Chassis Specialist				●	●			83,86
Automotive Engine Performance Specialist				●	●			83,86
Automotive Engine Service Specialist				●	●			84,87
General Automotive Technician				●	●			84,87
<b>Biology</b>			●	●				88
<b>Business</b>								89-101
Business Administration			●					94
Business Communication Skills						▲		94
Business Communications				●				95
Business Leadership				●	●			90,96
Business Management		●						89
Entrepreneurship				●	●		●	90,96,100
General Business						▲		97
Global Business				●	●			91,98
Marketing				●	●			92,98
New Media Marketing						▲		99
Professional Retailing				●	●			92,99
Retail Management				●	●			93,100
Human Resources Management							●	100

Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
<b>Business</b> <i>(continued)</i>								
Project Management							●	101
<b>Chemistry</b>				●				101
<b>Child Development and Education</b>								101-108
Early Childhood Education			●	●				102
Early Childhood Teacher					●			103
Elementary Teacher Education	●							101
Associate Teacher						▲		103
Infant Toddler Teacher					●			104,204
Master Teacher					●			104
School Age Care and Recreation					●			106
Site Supervisor					●			107
<b>Cinema/Television/Radio</b> (in the following specialty areas)				●	●	▲		108-113
Cinema								
CTVR-Critical Studies								
Post Production								
Radio								
Screen Acting and Voice Performance								
Television								
<b>Communication Studies</b>	●							113
<b>Computer and Information Management</b>								113-120
Applications Developer				●	●			113,117
Business Information Worker I						▲		117
Business Information Worker II					●			117
E-Commerce Specialist				●	●			114,118
Network Administrator				●	●			114,118
Software Specialist				●	●			115,119
Web Designer				●	●			116,119
Webmaster				●	●			116,120
Information Security: Security							●	120
Office & Computer Skills							●	120
<b>Computer Maintenance Technology</b>				●	●			121
<b>Computer Science</b>				●				121
<b>Cosmetology</b>								122
Cosmetology					●			122
Cosmetician							●	122

A.A.T.	A.A.	A.S.T.	A.S.	C.A. - ●	C.A. - ▲	O.S.A
Associate in Arts for Transfer	Associate of Arts Degree	Associate in Science for Transfer	Associate of Science Degree	Certificate of Achievement – Vocational Program or other area approved by the State Chancellor's Office 18 Units or more	Certificate of Achievement – Vocational Program or other area approved by the State Chancellor's Office 12 to fewer than 18 Units	Occupational Skills Award – Vocational Program 6-17.9 Units

Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
<b>Culinary Arts</b>								123-126
Advanced Culinary Arts				●	●			123
Basic Culinary Arts				●	●			123,125
Catering				●	●			124
<b>Dance</b>		●						126
<b>Drafting Technology</b>				●	●			127
<b>Ecological Restoration</b>					●			128
<b>Economics</b>	●	●						128
<b>Electronic Technology</b>								130-132
Analog and Digital Circuit Electronic Technology				●	●			130
Digital Electronic Technology				●	●			130
General Electronic Technology				●	●			131
Basic Analog and Digital Electronics							●	132
<b>Emergency Medical Technician</b>							●	132
<b>Engineering</b>				●				132
<b>English</b>								133-134
English	●							133
English Literature		●						133
<b>Environmental Studies</b>								135-136
Environmental Studies		●						135
Water Resources and Conservation					●			136
Sustainability Studies							●	136
<b>Family and Consumer Sciences</b>				●	●			136
<b>Fashion Design</b>								137-141
Advanced Fashion Design and Apparel Manufacturing					●			138
Fashion Design				●	●			137,139
Accessory Design							●	140
Basic Costume Construction and Sourcing							●	140
Fashion Technology							●	140
Sustainable Fashion and Social Entrepreneurship							●	141
<b>Fashion Merchandising</b>								141-145
Fashion Merchandising				●	●			141,143
Visual Fashion Merchandising				●	●			142,144
Event Planner							●	144
Fashion Stylist							●	144
<b>Foods</b>				●	●			145
<b>Gender and Sexuality Studies</b>		●						146
<b>General Ed</b>								146-147
General Education CSU-GE					●			146
General Education IGETC					●			147

Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
<b>General Studies</b>								147-149
Fine Arts and Humanities		●						147
Natural Sciences		●						148
Social and Behavioral Sciences		●						148
Liberal Studies								149
<b>Geography</b>	●	●						149
<b>Geology</b>			●					150
<b>Gerontology</b>								150-152
Gerontology					●			150
Gerontology Interdisciplinary						▲		151
<b>Graphics</b>								152-155
Computer Graphics				●	●			153
Graphic Communications				●	●			153
Graphic Design				●	●			153,155
Illustration/Animation		●			●			152,155
Biomedical Illustration					●			154
<b>Health Information Technology</b>								155-158
Health Information Technolgy				●				155
Healthcare Technology Optimization Specialist					●			157
Medical Coding Specialist					●			158
<b>Health Sciences</b>		●						157
<b>History</b>	●	●						158
<b>Horticulture/Landscape Design</b>								160-162
Horticulture				●	●			160
Landscape Design				●	●			160
General Horticulture							●	162
General Landscape Design							●	162
Plant Identification							●	162
<b>Human Services</b>								162-167
Alcohol and Drug Studies				●	●			162,165
Community Based Corrections				●	●			163,165
Human Services Generalist				●	●			164,166
Mental Health Worker				●	●			164,166
Eating Disorders Studies							●	167
<b>Humanities</b>		●						167
<b>Interior Design</b>								168-169
Interior Design Assistant				●				168
Level I – Interiors Merchandising					●			168
Level II – Interior Design Assistant					●			168
Level III – Interior Design Professional					●			169

Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
<b>International Languages</b>								169-173
Arabic		●						169
Chinese		●						170
French		●						170
German		●						171
Italian		●						171
Japanese		●						172
Spanish	●	●						172
<b>Journalism</b>	●			●	●			173-175
<b>Kinesiology</b>								175-179
Kinesiology	●	●						175
Athletic Training							●	179
Coaching							●	179
Yoga Teacher Training							●	179
<b>Liberal Studies</b>		●						149,179
<b>Marine Science Technology</b>								180-181
Marine Science Technician				●	●			180
Seamanship				●	●			180
<b>Mathematics</b>		●	●					181
<b>Medical Assistant</b>								182-184
Administrative Medical Assistant					●			182
Clinical Medical Assistant					●			183
Comprehensive Medical Assistant					●			183
Medical Insurance Billing							●	184
<b>Medical Lab Technology</b>				●	●			184
<b>Music</b>								185-187
Music	●	●						185
Music Production Entrepreneurship						▲		187
Music Production							●	187
<b>Nursing</b>								187-191
Registered Nurse				●	●			187
Licensed Vocational Nurse (LVN) to Registered Nurse (RN) 30 Unit Option					●			190
Licensed Vocational Nurse (LVN) to Registered Nurse (RN) Advanced Placement Option								191
<b>Nutrition</b>								191-192
Nutrition and Dietetics			●					191
Nutrition				●	●			191
<b>Paramedic</b>				●	●			192
<b>Philosophy</b>	●	●						194
<b>Photography</b>		●						194
<b>Physics</b>			●	●				195
<b>Political Science</b>	●	●						196

Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
<b>Psychology</b>	●							197
<b>Real Estate</b>								197-200
Real Estate				●		▲		198
Real Estate Appraisal				●		▲		197,199
Real Estate Escrow				●	●			198,200
<b>Sociology</b>	●							200
<b>Theatre Arts</b>								201-203
Theatre Arts	●							202
Theatre Arts Performance and Acting		●						201
Theatre Arts Technical Theatre		●						202
Theatre Arts Entertainment and Theatre Technology					●			203
Scenic Art and Painting							●	203
<b>Travel and Tourism</b>				●	●			204

## Non Credit Certificate Offerings

- Certificate of Completion – Non Credit ESL Only
- Certificate of Competency – Non Credit Certificate

<b>English as a Second Language</b>	134-135
ESL Beginning Level Certificate of Completion	134
ESL Intermediate Level Pre-College Certificate of Completion	135
ESL Advanced Level Certificate of Completion	134
<b>Adult Education</b>	73-74
Adult Education English as a Second Language-Beginning Level Certificate of Competency	73
Adult Education English as a Second Language-Intermediate-Advanced Level Certificate of Competency	73



## Accounting

There are three certificate programs available in accounting: Accountant, Computerized Accounting Specialist, and Tax Preparation. Accounting majors intending to transfer to a four-year college should refer to the Business Administration transfer curriculum.

### Accounting Associate in Science

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.

#### Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 1B MANAGERIAL ACCOUNTING **4 Units** \*
- or
- ACCT 203 COST ACCOUNTING **3 Units** \*
- ACCT 202A INTERMEDIATE ACCOUNTING I **3 Units** \*
- ACCT 202B INTERMEDIATE ACCOUNTING II **3 Units** \*
- ACCT 216 INDIVIDUAL INCOME TAX **4 Units** \*
- ACCT 217 PARTNERSHIP AND CORPORATE TAXATION **3 Units** \*
- ACCT 275 AUDITING **3 Units** \*
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**

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

#### Total Units for the Major: 26-27

#### Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualify the student for the Associate in Science 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.

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 Associate in Science

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.

#### Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 1B MANAGERIAL ACCOUNTING **4 Units** \*
- ACCT 216 INDIVIDUAL INCOME TAX **4 Units** \*
- ACCT 221 ACCOUNTING INFORMATION SYSTEMS **3 Units** \*
- CIMA 104 SPREADSHEETS - EXCEL **3 Units** +
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units** \*
- Select from Restricted Electives **3 Units**

#### Total Units for the Major: 22.5

#### Restricted Electives

- ACCT 120 INTRODUCTION TO FINANCIAL PLANNING **3 Units**
- ACCT 202A INTERMEDIATE ACCOUNTING I **3 Units** \*
- ACCT 217 PARTNERSHIP AND CORPORATE TAXATION **3 Units** \*
- ACCT 275 AUDITING **3 Units** \*

\*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 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.

Suggested coursework not required for the major: ACCT 202A, ACCT 202B, ACCT 203, ACCT 214, ACCT 215; BUS 102, BUS 103, BUS 104, BUS 125; CIM 1, CIM 112, CIMN 100, CIMN 100A, CIMA 104B\*, CIMA 106; ECON 2, ECON 4.

## Tax Preparation Associate in Science

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.

### Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 216 INDIVIDUAL INCOME TAX **4 Units \***
- ACCT 217 PARTNERSHIP AND CORPORATE TAXATION **3 Units \***
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- CIMA 104 SPREADSHEETS - EXCEL **3 Units +**
- CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS-BEGINNING **1.5 Units \***
- or*
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units \***
- Select from Restricted Electives - **3 Units**

**Total Units for the Major: 21.5**

### Restricted Electives

- ACCT 215 GENERAL ACCOUNTING **3 Units**
- ACCT 235 ENTREPRENEURIAL ACCOUNTING **3 Units**

\*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 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.

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.

## Accounting Certificate of Achievement

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.

### Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 1B MANAGERIAL ACCOUNTING **4 Units \***
- or*
- ACCT 203 COST ACCOUNTING **3 Units \***
- ACCT 202A INTERMEDIATE ACCOUNTING I **3 Units \***
- ACCT 202B INTERMEDIATE ACCOUNTING II **3 Units \***
- ACCT 216 INDIVIDUAL INCOME TAX **4 Units \***
- ACCT 217 PARTNERSHIP AND CORPORATE TAXATION **3 Units \***
- ACCT 275 AUDITING **3 Units \***
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**

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

**Total Units for the Certificate: 26-27**

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 of Achievement

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.

### Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 1B MANAGERIAL ACCOUNTING **4 Units \***
- ACCT 216 INDIVIDUAL INCOME TAX **4 Units \***
- ACCT 221 ACCOUNTING INFORMATION SYSTEMS **3 Units \***
- CIMA 104 SPREADSHEETS - EXCEL **3 Units +**
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units \***
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 22.5**

### Restricted Electives

- ACCT 120 INTRODUCTION TO FINANCIAL PLANNING **3 Units**
- ACCT 202A INTERMEDIATE ACCOUNTING I **3 Units \***
- ACCT 217 PARTNERSHIP AND CORPORATE TAXATION **3 Units \***
- ACCT 275 AUDITING **3 Units \***

\*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.

## Tax Preparation Certificate of Achievement

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.

### 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.

### Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 216 INDIVIDUAL INCOME TAX **4 Units \***
- ACCT 217 PARTNERSHIP AND CORPORATE TAXATION **3 Units \***
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- CIMA 104 SPREADSHEETS - EXCEL **3 Units +**
- CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS-BEGINNING **1.5 Units \***
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units \***
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 21.5**

### Restricted Electives

- ACCT 215 GENERAL ACCOUNTING **3 Units**
- ACCT 235 ENTREPRENEURIAL ACCOUNTING **3 Units**

\*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.

## Administrative Assistant Associate of Science

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

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of Administrative Assistant and Executive Administrative Assistant.
- Apply job skills in technical professional business environments.
- Demonstrate comprehensive, broad range computer competencies targeting a diverse and multicultural workforce.

### Required Courses

- BUS 103 BUSINESS ENGLISH **3 Units**
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**
- CIM 112 MICROSOFT OFFICE **3 Units**
- CIMA 283B OFFICE SKILLS-KEYBOARDING **0.5 Unit**
- CIMA 102 WORD PROCESSING - WORD **3 Units +**
- CIMA 104 SPREADSHEETS - EXCEL **3 Units +**
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units**
- CIMN 100 COMPUTER OPERATING SYSTEMS- WINDOWS **3 Units +**
- Restricted Electives **3 Units**

**Total Units for the Major: 21.5-22.5**

### Restricted Electives

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units \***
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- CIM 120 COMPUTER LITERACY **1.5 Units**
- CIMA 106 DATABASE - ACCESS **3 Units**
- CIMA 212 MANAGING PROJECTS WITH MICROSOFT PROJECT **3 Units**
- CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS-BEGINNING **1.5 Units \***
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units \***
- CIMW 100 WEB SITE DEVELOPMENT - HTML **3 Units \*+**
- CIMW 140 CSS (CASCADING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**
- CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS **1.5 Units**

\*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 of 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 of Science 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.

### Administrative Assistant Certificate of Achievement

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

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment in the areas of Administrative Assistant and Executive Administrative Assistant.
- Apply job skills in technical professional business environments.
- Demonstrate comprehensive, broad range computer competencies targeting a diverse and multicultural workforce.

#### Required Courses

- BUS 103 BUSINESS ENGLISH **3 Units**
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**  
or
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**  
or
- CIM 112 MICROSOFT OFFICE **3 Units**
- CIMA 283B OFFICE SKILLS-KEYBOARDING **0.5 Unit**
- CIMA 102 WORD PROCESSING - WORD **3 Units** +
- CIMA 104 SPREADSHEETS - EXCEL **3 Units** +
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units**
- CIMN 100 COMPUTER OPERATING SYSTEMS- WINDOWS **3 Units** +
- Restricted Electives **3 Units**

**Total Units for the Certificate: 21.5-22.5**

#### Restricted Electives

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- CIM 120 COMPUTER LITERACY **1.5 Units**
- CIMA 106 DATABASE - ACCESS **3 Units**
- CIMA 212 MANAGING PROJECTS WITH MICROSOFT PROJECT **3 Units**
- CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS-BEGINNING **1.5 Units** \*
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units** \*
- CIMW 100 WEB SITE DEVELOPMENT - HTML **3 Units** \*+
- CIMW 140 CSS (CASCAIDING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**
- CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS **1.5 Units**

\*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.

## Adult Education English as a Second Language – Beginning Level Certificate of Competency

The Adult Education in English as a Second Language (AESL) Certificate of Competency – Beginning Level is designed for students to demonstrate basic English language skills. The goal of this level is to build reading, writing, listening, speaking, grammar, and vocabulary skills so that students can communicate effectively in everyday situations. Emphasis on comprehending simple conversation, communicating survival needs, reading phrases and simple sentences, and performing communicative written tasks.

Students are placed within the following sequence of foundation courses according to their English abilities and progress through this sequence. Courses may be offered days, evenings and weekends during fall, spring and summer. There are no enrollment limitations or prerequisites for these courses.

#### Program Student Learning Outcomes

To earn the AESL Certificate of Competency – Beginning Level, students must demonstrate proficiency in their ability to:

- Identify or use appropriate language to get information or solve a problem.
- Identify or use various methods to make purchases, returns and exchanges.
- Identify driving regulations and emergency numbers/procedures.
- Communicate with medical staff regarding condition, diagnosis, and treatment.
- Identify procedures involved in finding, applying and interviewing for a job.
- Identify the basic structure of American government and the political system.
- Distinguish fact from opinion, and determine what is required and optional.

#### Required Courses

- AESL 701T BASIC LITERACY-ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE **0 unit**
- AESL 702T BEGINNING LOW-ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE **0 unit**
- AESL 703T BEGINNING HIGH-ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE **0 unit**

**Total Hours for the Certificate 298.80-448.20**

Students who earn the AESL Certificate of Competency – Beginning are eligible to take AESL Citizenship (708T) and may be prepared to enter the workplace.

## Adult Education English as a Second Language – Intermediate – Advanced Level Certificate of Competency

The Adult Education in English as a Second Language (AESL) Certificate of Competency-Intermediate-Advanced is designed for students to demonstrate "Advanced Low" English language skills. The goal of this level is to build reading, writing, listening, speaking, grammar, vocabulary and study skills, so that students can continue to communicate effectively in everyday situations and plus develop the language necessary to work toward career, personal and education goals (including preparation for credit courses).



Students are placed within the following sequence of core courses according to their English abilities and progress through this sequence. Courses may be offered days, evenings and weekends during fall, spring and summer. To enroll in these courses, students demonstrate the competencies from the AESL-Beginning Certificate, or have taken the Beginning-level courses. There are no enrollment limitations or prerequisites for these courses.

### Program Student Learning Outcomes

To earn the AESL Certificate of Competency – Intermediate-Advanced, students must demonstrate proficiency in their ability to:

- Understand face-to-face and telephone conversations in familiar and unfamiliar contexts.
- Take and interpret telephone messages, leave messages on voice mail, and interpret recorded messages.
- Use English appropriately in social situations (e.g. ask for and offer opinions and advice; respond to tag questions; express emotions).
- Scan for specific details, skim for general ideas, using multi-paragraph authentic reading passages on familiar topics.
- Summarize and discuss multi-paragraph reading passages or audio-visual materials.
- Write related sentences to form a fully comprehensible paragraph on a topic of personal interest, experience or knowledge.
- Write a short biography, personal letters, business letters and letters of complaint
- Complete forms such as medical health history, job application, college application.
- Interpret and critically assess information from online sources.
- Interpret wages, wage deductions, benefits and timekeeping forms

### Required Courses

- AESL 704T INTERMED. LOW-ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE **0 unit**
- AESL 705T INTERMED. HIGH-ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE **0 unit**
- AESL 706T ADVANCED LOW-ADULT EDUCATION ENGLISH AS A SECOND LANGUAGE **0 unit**

### Total Hours for the Certificate 298.80 – 448.20

Students who earn the AESL Certificate of Competency – Intermediate-Advanced are eligible to take AESL Citizenship (708T) and may be prepared to enter the Saddleback College ESL Program or CTE job-preparation program (placement tests required for both).

## Advanced Manufacturing Associate in Science

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.

### Required Courses

- DR 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units** \*  
or
- ARCH 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units** \*
- DR 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units** \*  
or
- ARCH 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units** \*
- MFG 204 3D COMPUTER AIDED DESIGN - SOLIDWORKS **3 Units** \*  
or
- DR 200 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units** \*
- MFG 200 INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY **3 Units** \*
- MFG 207 CNC COMPUTER NUMERICAL CONTROL PROGRAMMING I **3 Units**
- MFG 201 ADVANCED CAD MODEL MAKING AND TOOLING **2 Units** \*
- MFG 202 INDUSTRIAL MATERIALS **2 Units**
- MFG 203 INTRODUCTION TO MANUFACTURING PROCESSES **2 Units**
- DR 202 GEOMETRIC DIMENSIONING AND TOLERANCING **3 Units** \*
- MFG 208 CNC COMPUTER NUMERICAL CONTROL PROGRAMMING II **3 Units** \*
- MFG 205 SILICONE AND URETHANE MOLD MAKING **3 Units**
- MFG 206 RESIN AND FOAM CASTING **3 Units** \*
- Select one course from Restricted Electives **2-3 Units**

### Total Units for the Major: 35-36

### Restricted Electives: Select one of the following courses:

- DR 201 ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units** \*
- DR 51 COMPUTER-AIDED DRAFTING **3 Units** \*  
or
- ARCH 51 COMPUTER-AIDED DRAFTING **3 Units**
- ET 201 ROBOTICS FUNDAMENTALS **2 Units**

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

### Associate in Science Degree

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

## 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.

### Advanced Manufacturing Certificate of Achievement

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.

#### Required Courses

- DR 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units** \*  
or
- ARCH 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units** \*
- DR 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units** \*  
or
- ARCH 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units** \*
- MFG 204 3D COMPUTER AIDED DESIGN - SOLIDWORKS **3 Units** \*  
or
- DR 200 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units** \*
- MFG 200 INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY **3 Units** \*
- MFG 207 CNC COMPUTER NUMERICAL CONTROL PROGRAMMING I **3 Units**
- MFG 201 ADVANCED CAD MODEL MAKING AND TOOLING **2 Units** \*
- MFG 202 INDUSTRIAL MATERIALS **2 Units**
- MFG 203 INTRODUCTION TO MANUFACTURING PROCESSES **2 Units**
- DR 202 GEOMETRIC DIMENSIONING AND TOLERANCING **3 Units** \*

- MFG 208 CNC COMPUTER NUMERICAL CONTROL PROGRAMMING II **3 Units** \*
- MFG 205 SILICONE AND URETHANE MOLD MAKING **3 Units**
- MFG 206 RESIN AND FOAM CASTING **3 Units** \*
- Select one course from Restricted Electives **2-3 Units**

#### Total Units for the Certificate: 35-36

#### Restricted Electives: Select one of the following courses:

- DR 201 ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units** \*
- DR 51 COMPUTER-AIDED DRAFTING **3 Units** \*  
or
- ARCH 51 COMPUTER-AIDED DRAFTING **3 Units** \*
- ET 201 ROBOTICS FUNDAMENTALS **2 Units**

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

### American Sign Language Associate in Science

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 needed 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.

#### Required Courses

- SL 1 AMERICAN SIGN LANGUAGE I **4 Units** \*
  - SL 2 AMERICAN SIGN LANGUAGE II **4 Units** \*
  - SL 3 AMERICAN SIGN LANGUAGE III **4 Units** \*
  - SL 4 AMERICAN SIGN LANGUAGE IV **4 Units** \*
  - SL 101 DEAF CULTURE AND ITS HISTORY **3 Units**
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

#### Total Units for the Major: 19

#### Associate in Science Degree

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

#### 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.



## American Sign Language Certificate of Achievement

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 needed 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.

### Required Courses

- SL 1 AMERICAN SIGN LANGUAGE I **4 Units** \*
- SL 2 AMERICAN SIGN LANGUAGE II **4 Units** \*
- SL 3 AMERICAN SIGN LANGUAGE III **4 Units** \*
- SL 4 AMERICAN SIGN LANGUAGE IV **4 Units** \*
- SL 101 DEAF CULTURE AND ITS HISTORY **3 Units**

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

**Total Units for the Certificate: 19**

## Anthropology Associate of Arts

Anthropology is a diverse discipline that investigates the biological and cultural life of human beings at all times and in all places. An anthropology degree provides students with an appreciation of other ways of life, different systems of belief, and different ways of constructing knowledge, 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 (AA) in Anthropology degree by providing the necessary breadth in the field and an introduction to the methods used. While a baccalaureate or higher degree, which can be achieved through transfer, is recommended for those considering professional careers in anthropology, an associate degree may support attempts to gain entry-level employment as lab technicians, research assistants, museum workers, cultural resource conservators, and other related positions.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe the historical development and breadth of anthropology, including the "four-field approach" in American anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines.
- Explain the processes of human biological evolution and discuss the importance of the scientific method in anthropological research and also 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 and to 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 and discuss the politics of inclusion and exclusion both locally and globally as well as to articulate an anthropological perspective in relation to contemporary issues and concerns.
- Identify the correct methods for the undertaking of ethnographic, linguistic, and/or archaeological fieldwork.
- Identify the ethical responsibilities and concerns in the conducting of anthropological research including to critically evaluate information sources about different peoples and culture.

### Required Courses

- ANTH 1 BIOLOGICAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 1H HONORS BIOLOGICAL ANTHROPOLOGY **3 Units**
- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 2H HONORS CULTURAL ANTHROPOLOGY **3 Units**
- ANTH 3 CULTURE AND LANGUAGE **3 Units** \*
- ANTH 9 INTRODUCTION TO ARCHAEOLOGY **3 Units**
- Select from Restricted Electives **6 Units**

**Total Units for the Major: 18**

### Restricted Electives

- ANTH 4 NATIVE AMERICAN CULTURES **3 Units**
- ANTH 5 ANTHROPOLOGY OF LATIN AMERICA-CULTURE, IDENTITY, AND POWER **3 Units**
- ANTH 6 GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE **3 Units** \*
- ANTH 7 NATIVE AMERICAN CULTURES OF SOUTHERN CALIFORNIA **3 Units**
- ANTH 8 WORLD PREHISTORY **3 Units**
- ANTH 10 CELTIC CULTURES **3 Units**
- ANTH 13 MAGIC, WITCHCRAFT, AND RELIGION **3 Units**
- ANTH 14 INTRODUCTION TO VISUAL CULTURE **3 Units**
- ANTH 15 THE WORLD OF PRIMATES **3 Units**
- ANTH 16 ARCHAEOLOGICAL FIELD METHODS **1 Unit** \*
- ANTH 17 THE BIOLOGICAL EVOLUTION OF HUMAN NATURE **3 Units**
- ANTH 19 FORENSIC ANTHROPOLOGY **3 Units** \*
- ANTH 21 WOMEN, GENDER, AND CULTURE - CROSS-CULTURAL PERSPECTIVES **3 Units**
- ES 1 MULTICULTURAL EXPERIENCES IN THE UNITED STATES **3 Units**
- ES 3 INTRODUCTION TO CHICANA(O) AND LATINA(O) CULTURES **3 Units**

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

### Associate of 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 of 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.

## Anthropology Associate in Arts 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 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.

### 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.

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 Intersegmental General Education Transfer Curriculum (IGETC) or 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.
  - C. Students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.
2. Obtainment of a minimum grade point average of 2.0

### Required Core

- ANTH 1 BIOLOGICAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 1H HONORS BIOLOGICAL ANTHROPOLOGY **3 Units**
- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 2H HONORS CULTURAL ANTHROPOLOGY **3 Units**
- ANTH 9 INTRODUCTION TO ARCHAEOLOGY **3 Units**

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

- ANTH 3 CULTURE AND LANGUAGE **3 Units** \*
- ANTH 13 MAGIC, WITCHCRAFT, AND RELIGION **3 Units**

### Group B: Select one of the following courses or any course from Group A not already used (3-4 units)

- BIO 11 HUMAN ANATOMY **4 Units** \*
- GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY **4 Units**
- GEOL 20 INTRODUCTION TO EARTH SCIENCE **4 Units**
- GEOL 23 ENVIRONMENTAL GEOLOGY **4 Units**

### Group C: Select from the courses below or any course from Group A or Group B not already used (3-4 units)

- ANTH 4 NATIVE AMERICAN CULTURES **3 Units**
- ANTH 5 ANTHROPOLOGY OF LATIN AMERICA-CULTURE, IDENTITY, AND POWER **3 Units**
- ANTH 6 GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE **3 Units** \*
- ANTH 7 NATIVE AMERICAN CULTURES OF SOUTHERN CALIFORNIA **3 Units**
- ANTH 8 WORLD PREHISTORY **3 Units**
- ANTH 10 CELTIC CULTURES **3 Units**
- ANTH 14 INTRODUCTION TO VISUAL CULTURE **3 Units**
- ANTH 15 THE WORLD OF PRIMATES **3 Units**
- ANTH 17 THE BIOLOGICAL EVOLUTION OF HUMAN NATURE **3 Units**
- ANTH 19 FORENSIC ANTHROPOLOGY **3 Units** \*
- ANTH 21 WOMEN, GENDER, AND CULTURE - CROSS-CULTURAL PERSPECTIVES **3 Units**
- ES 1 MULTICULTURAL EXPERIENCES IN THE UNITED STATES **3 Units**
- ES 3 INTRODUCTION TO CHICANA(O)AND LATINA(O) CULTURES **3 Units**

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

### Total Units for the Major: 18-20

### General Education (CSU GE or IGETC) 37-39

Additional CSU transferable electives may be needed to meet the 60 unit requirement for AD-T degrees

### Total Degree Units: 60

## Architectural Drafting Associate in Science

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 Nouveau, 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.

### First Year

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

### Second Year

- ARCH 34 BASIC ARCHITECTURAL DESIGN I **3 Units \***
- ARCH 42 DESCRIPTIVE DRAWING AND PERSPECTIVE **3 Units \***
- ARCH 122 ARCHITECTURAL PRACTICE **2 Units**
- ARCH 124B ARCHITECTURAL DRAWING II **4 Units \***
- ARCH 124C ARCHITECTURAL DRAWING III **4 Units \***
- ARCH 126 MATERIALS AND METHODS OF CONSTRUCTION **3 Units**
- Select from Restricted Electives **3-6 Units**

**Total Units for the Major: 49-52**

### Restricted Electives

- ARCH 44 ARCHITECTURAL PRESENTATION AND RENDERING **2 Units \***
- ARCH 132 RESIDENTIAL PLANNING, PRINCIPLES AND DESIGN **3 Units \***
- ARCH 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units \***  
or
- DR 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units \***
- ARCH 161 BLUEPRINT PLANS AND SPECIFICATION READING **4 Units**

- ARCH 163 INTERNATIONAL BUILDING CODE INSPECTION **4 Units**
- ARCH 164 COMBINATION RESIDENTIAL DWELLING INSPECTION **3 Units \***
- ARCH 165 ELECTRICAL CODE INSPECTION **3 Units**
- ARCH 200 DESIGN IN ARIZONA, RIVERSIDE AND PALM SPRINGS **1.5 Units**
- ARCH 211 CONCRETE INSPECTION **3 Units**
- ARCH 212 DRAINS, WASTE, VENTS, WATER AND GAS **3 Units**
- ARCH 213 MECHANICAL CODE - HEATING, AC, REFRIGERATION, AND DUCTWORK **3 Units**
- ARCH 221 ADVANCED REVIT AND BUILDING INFORMATION MANAGEMENT II **4 Units \***
- ARCH 260 ARCHITECTURE IN NORTHERN CALIFORNIA **1.5 Units**
- ARCH 261 ORANGE AND SAN DIEGO ARCHITECTURE **1.5 Units**
- ARCH 262 LOS ANGELES ARCHITECTURE **1.5 Units**
- DR 200 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units \***
- MFG 200 INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY **3 Units \***
- MFG 201 ADVANCED CAD MODEL MAKING AND TOOLING **2 Units \***  
\*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### Associate in Science Degree

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

### 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 Associate in Science

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.

## Required Courses

- ARCH 161 BLUEPRINT PLANS AND SPECIFICATION READING **4 Units**
- ARCH 163 INTERNATIONAL BUILDING CODE INSPECTION **4 Units**
- ARCH 164 COMBINATION RESIDENTIAL DWELLING INSPECTION **3 Units \***
- ARCH 165 ELECTRICAL CODE INSPECTION **3 Units**
- ARCH 211 CONCRETE INSPECTION **3 Units**
- ARCH 212 PLUMBING CODES - DRAINS, WASTE, VENTS, WATER, AND GAS **3 Units**
- ARCH 213 MECHANICAL CODE - HEATING, AC, REFRIGERATION, AND DUCTWORK **3 Units**

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

## Total Units for the Major: 23

## Associate in Science Degree

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

## 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: MATH 351.

## Architectural Drafting Certificate of Achievement

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 Nouveau, 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.

## First Year

- ARCH 10 INTRODUCTION TO ARCHITECTURE **2 Units**
- ARCH 12 HISTORY OF ARCHITECTURE **3 Units**
- ARCH 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units \***
- or*
- DR 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units \***
- ARCH 51 COMPUTER-AIDED DRAFTING **3 Units \***
- or*

- DR 51 COMPUTER-AIDED DRAFTING **3 Units \***
- ARCH 124A ARCHITECTURAL DRAWING I **4 Units**
- ARCH 218 FOUNDATION STUDIO IN ARCHITECTURE **4 Units**
- ARCH 219 RESIDENTIAL AND COMMERCIAL SPACE PLANNING **4 Units \***
- ARCH 220 REVIT AND BUILDING INFORMATION MANAGEMENT(BIM) **4 Units \***

## Second Year

- ARCH 34 BASIC ARCHITECTURAL DESIGN I **3 Units \***
- ARCH 42 DESCRIPTIVE DRAWING AND PERSPECTIVE **3 Units \***
- ARCH 122 ARCHITECTURAL PRACTICE **2 Units**
- ARCH 124B ARCHITECTURAL DRAWING II **4 Units \***
- ARCH 124C ARCHITECTURAL DRAWING III **4 Units \***
- ARCH 126 MATERIALS AND METHODS OF CONSTRUCTION **3 Units**
- Select from Restricted Electives **3-6 Units**

## Total Units for the Certificate: 49-52

## Restricted Electives

- ARCH 44 ARCHITECTURAL PRESENTATION AND RENDERING **2 Units \***
- ARCH 132 RESIDENTIAL PLANNING, PRINCIPLES AND DESIGN **3 Units \***
- ARCH 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units \***
- or*
- DR 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units \***
- ARCH 161 BLUEPRINT PLANS AND SPECIFICATION READING **4 Units**
- ARCH 163 INTERNATIONAL BUILDING CODE INSPECTION **4 Units**
- ARCH 164 COMBINATION RESIDENTIAL DWELLING INSPECTION **3 Units \***
- ARCH 165 ELECTRICAL CODE INSPECTION **3 Units**
- ARCH 200 DESIGN IN ARIZONA, RIVERSIDE AND PALM SPRINGS **1.5 Units**
- ARCH 211 CONCRETE INSPECTION **3 Units**
- ARCH 212 DRAINS, WASTE, VENTS, WATER AND GAS **3 Units**
- ARCH 213 MECHANICAL CODE - HEATING, AC, REFRIGERATION, AND DUCTWORK **3 Units**
- ARCH 221 ADVANCED REVIT AND BUILDING INFORMATION MANAGEMENT II **4 Units \***
- ARCH 260 - ARCHITECTURE IN NORTHERN CALIFORNIA **1.5 Units**
- ARCH 261 - ORANGE AND SAN DIEGO ARCHITECTURE **1.5 Units**
- ARCH 262 - LOS ANGELES ARCHITECTURE **1.5 Units**
- DR 200 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units \***
- MFG 200 INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY **3 Units \***
- MFG 201 ADVANCED CAD MODEL MAKING AND TOOLING **2 Units \***

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



## Construction Inspection Certificate of Achievement

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.

### Required Courses

- ARCH 161 BLUEPRINT PLANS AND SPECIFICATION READING **4 Units**
- ARCH 163 INTERNATIONAL BUILDING CODE INSPECTION **4 Units**
- ARCH 164 COMBINATION RESIDENTIAL DWELLING INSPECTION **3 Units** \*
- ARCH 165 ELECTRICAL CODE INSPECTION **3 Units**
- ARCH 211 CONCRETE INSPECTION **3 Units**
- ARCH 212 PLUMBING CODES - DRAINS, WASTE, VENTS, WATER, AND GAS **3 Units**
- ARCH 213 MECHANICAL CODE - HEATING, AC, REFRIGERATION, AND DUCTWORK **3 Units**

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

**Total Units for the Certificate: 23**

## Art Associate in Arts

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

### Program Student Learning Outcomes

Students who complete this program will:

- Be prepared for transfer in art history and/or studio art by offering articulated courses, and courses that serve as prerequisites for admission in the UC system, the CSU system and private institutions.
- Be prepared for employment 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.

### First Year

- ART 40 2-D FOUNDATIONS **3 Units**
- ART 41 THREE-DIMENSIONAL DESIGN **3 Units** \*
- ART 50 PAINTING - I **3 Units** \*
- ART 80 DRAWING I **3 Units**
- Select from Restricted Electives **3 Units**

### Second Year

- ARTH 25 SURVEY OF ART HISTORY - ANCIENT WORLDS TO GOTHIC **3 Units**
- ARTH 26 SURVEY OF WESTERN ART HISTORY - RENAISSANCE TO CONTEMPORARY **3 Units** \*
- ART 85 DRAWING FROM THE LIVE MODEL I **3 Units** \*
- Select from Restricted Electives **9 Units**

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

**Total Units for the Major: 33**

### Restricted Electives

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

### 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.

## Studio Arts Associate in Arts for Transfer

The Associate in Arts in Studio Arts for Transfer degree is designed for students who plan 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 advance 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 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:

- Be prepared for transfer in art history and/or studio art by offering articulated courses, and courses that serve as prerequisites for admission in the UC system, the CSU system and private institutions.
- Be prepared for employment 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.

### Required Core

- ARTH 26 SURVEY OF WESTERN ART HISTORY - RENAISSANCE TO CONTEMPORARY **3 Units** \*
- ART 40 2-D FOUNDATIONS **3 Units**
- ART 41 THREE-DIMENSIONAL DESIGN **3 Units** \*
- ART 80 DRAWING I **3 Units**

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

- ARTH 22 SURVEY OF ASIAN ART (INDIA, CHINA, JAPAN, AND KOREA) **3 Units**
- ARTH 23 - AFRICAN AND OCEANIC ART **3 Units**
- ARTH 25 SURVEY OF ART HISTORY - ANCIENT WORLDS TO GOTHIC **3 Units**
- ARTH 29 INTRODUCTION TO WORLD ART **3 Units**

### Group B: Select three courses from three areas below (9 units):

#### Drawing

- ART 85 DRAWING FROM THE LIVE MODEL I **3 Units** \*
- or
- ART 81 DRAWING II **3 Units** \*

#### Painting

- ART 50 PAINTING - I **3 Units** \*

#### Printmaking

- ART 60 INTAGLIO (ETCHING) AND RELIEF I **3 Units** \*

#### Ceramics

- ART 9 CERAMICS FUNDAMENTALS **3 Units** \*

#### Sculpture

- ART 70 FUNDAMENTALS OF SCULPTURE **3 Units**

#### Color

- ART 42 COLOR THEORY AND PRACTICE **3 Units** \*
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Major: 24**

## Art History

### Associate in Arts 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 be prepared for transfer in art history, be prepared for employment in the field through experience in art history, and demonstrate skills to pursue lifelong learning in the areas of art history.

**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.

### Required Courses

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

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

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

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

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



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

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

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

**Total Units for the Major: 18-20**

### Astronomy Associate in Science

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).

**First Year**

- ASTR 20 GENERAL ASTRONOMY **3 Units**  
*and*
- ASTR 25 OBSERVATIONAL ASTRONOMY **3 Units \***
- CS 1A INTRODUCTION TO COMPUTER SCIENCE I **5 Units**
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- PHYS 4A GENERAL PHYSICS **5 Units \***

**Second Year**

- PHYS 4B GENERAL PHYSICS **5 Units \***
- PHYS 4C GENERAL PHYSICS **5 Units \***

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

**Total Units for the Major: 34****Associate in Science Degree**

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

**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 Associate in Science

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.

**Required Courses**

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units \***
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- Select from Restricted Electives **3 Units**

**Total Units for the Major: 27****Restricted Electives**

- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units \***
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units \***

- AUTO 105 AUTOMOTIVE POWER TRAIN **3 Units** \*
- AUTO 106A AUTOMOTIVE SUSPENSION AND ALIGNMENT **3 Units** \*
- AUTO 106B AUTOMOTIVE BRAKE SYSTEMS **3 Units** \*
- AUTO 107 AUTOMATIC TRANSMISSION **3 Units** \*
- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units** \*
- AUTO 202 ADVANCED ENGINE PERFORMANCE DIAGNOSIS **3 Units** \*
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units** \*
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units** \*
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit** \*
- AUTO 240 AUTOMOTIVE LAB **3 Units** \*
- CWE 180 CO-OP-ED-AUTO **1 Unit** †

\*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 Alternative Fuel Vehicle Specialist 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 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.

## Automotive Chassis Specialist Associate in Science

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.

### Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units** \*
- AUTO 105 AUTOMOTIVE POWER TRAIN **3 Units** \*
- AUTO 106A AUTOMOTIVE SUSPENSION AND ALIGNMENT **3 Units** \*
- AUTO 106B AUTOMOTIVE BRAKE SYSTEMS **3 Units** \*
- AUTO 107 AUTOMATIC TRANSMISSION **3 Units** \*
- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units** \*
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units** \*
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units** \*
- Select from Restricted Electives **.5-5 Units**

**Total Units for the Major: 27.5-32**

### Restricted Electives

- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units** \*
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit** \*
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units** \*
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units** \*
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units** \*
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit** \*
- AUTO 229 DIESEL TECHNOLOGY **3 Units** \*
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units** \*
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units** \*
- AUTO 240 AUTOMOTIVE LAB **3 Units** \*
- CWE 180 CO-OP-ED-AUTO **1 Unit** †

\*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 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.

## Automotive Engine Performance Specialist Associate in Science

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.

### Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units** \*
- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units** \*
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units** \*
- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units** \*
- AUTO 200 ENHANCED AREA CLEAN AIR CAR COURSE **1 Unit** \*
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units** \*
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit** \*

- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- Select from Restricted Electives **3 Units**

**Total Units for the Major: 27.5**

#### Restricted Electives

- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 202 ADVANCED ENGINE PERFORMANCE DIAGNOSIS **3 Units \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

\*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.

#### Associate in Science Degree

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

#### 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 Engine Service Specialist Associate in Science

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 re-build a complete engine.
- Demonstrate preparation for related ASE certification exams.

#### Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units \***
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units \***

- AUTO 104A AUTOMOTIVE ENGINES **5 Units \***
- AUTO 104B AUTOMOTIVE ENGINES **5 Units \***
- AUTO 204A HIGH PERFORMANCE ENGINE BLUEPRINTING - ROTATING ASSEMBLY **3 Units \***
- AUTO 204B HIGH PERFORMANCE ENGINE BLUEPRINTING - CYLINDER HEADS **3 Units \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- Select from Restricted Electives **.5-5 Units**

**Total Units for the Major: 28.5-33**

#### Restricted Electives

- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units \***
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

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

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

#### Associate in Science Degree

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

#### 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.

### General Automotive Technician Associate in Science

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

## Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units \***
- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units \***
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units \***
- AUTO 104A AUTOMOTIVE ENGINES **5 Units \***
- AUTO 104B AUTOMOTIVE ENGINES **5 Units \***
- AUTO 105 AUTOMOTIVE POWER TRAIN **3 Units \***
- AUTO 106A AUTOMOTIVE SUSPENSION AND ALIGNMENT **3 Units \***
- AUTO 106B AUTOMOTIVE BRAKE SYSTEMS **3 Units \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- Select from Restricted Electives **.5-5 Units**

**Total Units for the Major: 34.5-39**

## Restricted Electives

- AUTO 107 AUTOMATIC TRANSMISSION **3 Units \***
- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units \***
- AUTO 200 - ENHANCED AREA CLEAN AIR CAR COURSE **2 Units**
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units \***
- AUTO 202 ADVANCED ENGINE PERFORMANCE DIAGNOSIS **3 Units \***
- AUTO 204A HIGH PERFORMANCE ENGINE BLUEPRINTING - ROTATING ASSEMBLY **3 Units \***
- AUTO 204B HIGH PERFORMANCE ENGINE BLUEPRINTING - CYLINDER HEADS **3 Units \***
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

\*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.

## Associate in Science Degree

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

## 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.

## Alternative Fuel Vehicle Specialist Certificate of Achievement

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.

## Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units \***
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 27**

## Restricted Electives

- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units \***
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units \***
- AUTO 105 AUTOMOTIVE POWER TRAIN **3 Units \***
- AUTO 106A AUTOMOTIVE SUSPENSION AND ALIGNMENT **3 Units \***
- AUTO 106B AUTOMOTIVE BRAKE SYSTEMS **3 Units \***
- AUTO 107 AUTOMATIC TRANSMISSION **3 Units \***
- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 202 ADVANCED ENGINE PERFORMANCE DIAGNOSIS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

\*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 Alternative Fuel Vehicle Specialist Program.



## Automotive Chassis Specialist Certificate of Achievement

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.

### Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units \***
- AUTO 105 AUTOMOTIVE POWER TRAIN **3 Units \***
- AUTO 106A AUTOMOTIVE SUSPENSION AND ALIGNMENT **3 Units \***
- AUTO 106B AUTOMOTIVE BRAKE SYSTEMS **3 Units \***
- AUTO 107 AUTOMATIC TRANSMISSION **3 Units \***
- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- Select from Restricted Electives **.5-5 Units**

**Total Units for the Certificate: 27.5-32**

### Restricted Electives

- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units \***
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

\*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.

## Automotive Engine Performance Specialist Certificate of Achievement

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.

### Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units \***
- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units \***
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units \***
- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units \***
- AUTO 200 ENHANCED AREA CLEAN AIR CAR COURSE **1 Unit \***
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units \***
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 27.5**

### Restricted Electives

- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 202 ADVANCED ENGINE PERFORMANCE DIAGNOSIS **3 Units \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

\*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 of Achievement

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 re-build a complete engine.
- Demonstrate preparation for related ASE certification exams.

### Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units \***
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units \***
- AUTO 104A AUTOMOTIVE ENGINES **5 Units \***
- AUTO 104B AUTOMOTIVE ENGINES **5 Units \***
- AUTO 204A HIGH PERFORMANCE ENGINE BLUEPRINTING - ROTATING ASSEMBLY **3 Units \***
- AUTO 204B HIGH PERFORMANCE ENGINE BLUEPRINTING - CYLINDER HEADS **3 Units \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- Select from Restricted Electives **.5-5 Units**

**Total Units for the Certificate: 28.5-33**

### Restricted Electives

- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units \***
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

\*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.

## General Automotive Technician Certificate of Achievement

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

### Required Courses

- AUTO 100 AUTOMOTIVE FUNDAMENTALS **3 Units**
- AUTO 101 AUTOMOTIVE ELECTRICAL SYSTEMS **3 Units \***
- AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION **3 Units \***
- AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS **3 Units \***
- AUTO 104A AUTOMOTIVE ENGINES **5 Units \***
- AUTO 104B AUTOMOTIVE ENGINES **5 Units \***
- AUTO 105 AUTOMOTIVE POWER TRAIN **3 Units \***
- AUTO 106A AUTOMOTIVE SUSPENSION AND ALIGNMENT **3 Units \***
- AUTO 106B AUTOMOTIVE BRAKE SYSTEMS **3 Units \***
- AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS **3 Units \***
- Select from Restricted Electives **.5-5 Units**

**Total Units for the Certificate: 34.5-39**

### Restricted Electives

- AUTO 107 AUTOMATIC TRANSMISSION **3 Units \***
- AUTO 108 AUTOMOTIVE AIR CONDITIONING **3 Units \***
- AUTO 109 CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE **5 Units \***
- AUTO 200 - ENHANCED AREA CLEAN AIR CAR COURSE **2 Units**
- AUTO 201 ADVANCED AUTOMOTIVE ELECTRICAL **3 Units \***
- AUTO 202 ADVANCED ENGINE PERFORMANCE DIAGNOSIS **3 Units \***
- AUTO 204A HIGH PERFORMANCE ENGINE BLUEPRINTING - ROTATING ASSEMBLY **3 Units \***
- AUTO 204B HIGH PERFORMANCE ENGINE BLUEPRINTING - CYLINDER HEADS **3 Units \***
- AUTO 205 ADVANCED SMOG UPDATE TRAINING **0.5 Unit \***
- AUTO 220 ALTERNATIVE PROPULSION SYSTEMS **3 Units \***
- AUTO 226 AUTOMOTIVE SERVICE CONSULTANT **2 Units \***
- AUTO 227 AUTOMOTIVE SERVICE MANAGEMENT **3 Units \***
- AUTO 228 ADVANCED VEHICLE PERFORMANCE **1 Unit \***
- AUTO 229 DIESEL TECHNOLOGY **3 Units \***
- AUTO 231 HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY **3 Units \***
- AUTO 232 DIESEL SYSTEMS TECHNOLOGY **3 Units \***
- AUTO 240 AUTOMOTIVE LAB **3 Units \***
- CWE 180 CO-OP-ED-AUTO **1 Unit †**

\*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 of Science

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

### Required Course Options (13-15 Units)

#### Pathway Option 1 - (15 Units)

- CHEM 1A GENERAL CHEMISTRY **5 Units** \*
- or*
- CHEM 2 GENERAL CHEMISTRY PRINCIPLES **5 Units** \*
- BIO 3A GENERAL BIOLOGY I **5 Units** \*
- or*
- BIO 3AH HONORS GENERAL BIOLOGY I **5 Units** \*
- BIO 3B GENERAL BIOLOGY II **5 Units** \*
- or*
- BIO 3BH HONORS GENERAL BIOLOGY II **5 Units** \*

#### Pathway Option 2 - (15 Units)

- CHEM 1A GENERAL CHEMISTRY **5 Units** \*
- or*
- CHEM 2 GENERAL CHEMISTRY PRINCIPLES **5 Units** \*
- BIO 3A GENERAL BIOLOGY I **5 Units** \*
- or*
- BIO 3AH HONORS GENERAL BIOLOGY I **5 Units** \*
- BIO 3C BIOCHEMISTRY AND MOLECULAR BIOLOGY **5 Units** \*

#### Pathway Option 3 - (13 Units)

- CHEM 1A GENERAL CHEMISTRY **5 Units** \*
- or*
- CHEM 2 GENERAL CHEMISTRY PRINCIPLES **5 Units** \*
- BIO 4A PRINCIPLES OF CELLULAR BIOLOGY **4 Units** \*
- BIO 4B PRINCIPLES OF ORGANISMAL BIOLOGY **4 Units** \*

### Restrictive Electives: 10 Units

### Total Units for the Major: 23-25

#### Restrictive Electives

- BIO 11 HUMAN ANATOMY **4 Units** \*
- BIO 12 HUMAN PHYSIOLOGY **4 Units** \*
- BIO 15 GENERAL MICROBIOLOGY **5 Units** \*
- BIO 19 MARINE BIOLOGY **4 Units**
- BIO 20 INTRODUCTION TO BIOLOGY **4 Units**
- BIO 22 HUMAN GENETICS **3 Units** \*
- BIO 28 PLANTS AND HUMAN AFFAIRS **3 Units**
- BIO 30 HUMAN BIOLOGY **3 Units**
- BIO 31 BIOLOGY OF PLANTS **3 Units**
- BIO 40 EVOLUTION **3 Units**

- BIO 43 ANIMAL BEHAVIOR **3 Units**
- BIO 45 BIOLOGY OF HUMAN DISEASE **3 Units**
- BIO 49 RESEARCH IN BIOLOGY AND BIOCHEMISTRY A **1.5 Units** \*
- BIO 50 RESEARCH IN BIOLOGY AND BIOCHEMISTRY B **1.5 Units** \*
- BIO 104 FORENSIC BIOLOGY **4 Units**
- BIO 112 PATHOPHYSIOLOGY **3 Units**
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- or*
- MATH 3AH HONORS ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MS 20 INTRODUCTION TO OCEANOGRAPHY **4 Units**
- PHYS 1A PHYSICS WITH CALCULUS FOR CHEMISTRY AND LIFE SCIENCES I **4 Units** \*
- or*
- PHYS 2A INTRODUCTION TO PHYSICS **5 Units** \*
- or*
- PHYS 4A GENERAL PHYSICS **5 Units** \*

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

Suggested coursework not required for the major: CHEM 1B, CHEM 12A, CHEM 12B, MATH 3B, PHYS 1B or PHYS 2B, or PHYS 4B, PHYS 4C.

### Associate of 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 of Science 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.

## Biology Associate in Science for Transfer

The curriculum of the Biology program is designed to provide the transfer student the opportunity to achieve an Associate in Science in Biology for Transfer degree by providing the necessary breadth of study and an introduction to research methods used in a variety of Biology disciplines. The Associate in Science in Biology for Transfer degree is designed to prepare students for a seamless transfer into the CSU system to complete a baccalaureate degree in Biology or similar major. 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 that can be achieved through transfer.

### Program Student Learning Outcomes

Students who complete this program will be able to demonstrate:

- A working knowledge of the scientific method
- The ability to articulate (verbally and in writing) knowledge of biological concepts, biological methods, and current biological issues.
- An awareness of the impact that biology has had on society at large
- Scientific critical thinking skills, such as assessing the appropriateness of experimental design and interpreting data

To earn the Associate in Science in Biology for Transfer degree, students must complete 60 CSU-transferable semester units with a minimum grade point average of 2.0, including both of the following:

- Completion of all courses required for the major with grades of "C" or better; and
- Completion of the Intersegmental General Education Transfer Curriculum for Science, Technology, Engineering, and Mathematics (IGETC for STEM) pattern<sup>1</sup>

### Required Core (8 units)

- BIO 4A PRINCIPLES OF CELLULAR BIOLOGY **4 Units** \*
- BIO 4B PRINCIPLES OF ORGANISMAL BIOLOGY **4 Units** \*

### List A: (23-25 units)

- CHEM 1A GENERAL CHEMISTRY **5 Units** \*
- or*
- CHEM 2 GENERAL CHEMISTRY PRINCIPLES **5 Units** \*
- CHEM 1B GENERAL CHEMISTRY **5 Units** \*
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- or*
- MATH 3AH HONORS ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- PHYS 1A PHYSICS WITH CALCULUS FOR CHEMISTRY AND LIFE SCIENCES I **4 Units** \*
- and*
- PHYS 1B PHYSICS WITH CALCULUS FOR CHEMISTRY AND LIFE SCIENCES II **4 Units** \*
- or*
- PHYS 2A INTRODUCTION TO PHYSICS **5 Units** \*
- and*
- PHYS 2B INTRODUCTION TO PHYSICS **5 Units** \*
- or*
- PHYS 4A GENERAL PHYSICS **5 Units** \*
- and*
- PHYS 4B GENERAL PHYSICS **5 Units** \*

### Total Units for the Major: 31-33

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

<sup>1</sup> IGETC for STEM is only an option for students earning AS-T degrees in Biology for Transfer and/or Chemistry for Transfer. IGETC for STEM certification requires the following courses before transfer:

- All Courses in Area 1 (except 1C for UC-bound students), 2, and 5 of the traditional IGETC;
- Two courses in Area 3 – one course in Area 3A and one course in Area 3B; and
- Two courses in Area 4 from two different disciplines.

The following deferred courses must be completed after transfer:

- One remaining lower-division general education course in Area 3;
- One remaining lower-division general education course in Area 4; and
- One course in Area 6 for UC-bound students who have not satisfied the requirement through proficiency.

(The deferred lower-division courses must be replaced with calculus and/or science courses that are required to be taken before transfer to the university.)

## 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.

### Business Management Associate in Arts

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.

### Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- BUS 1 INTRODUCTION TO BUSINESS **3 Units**
- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units** (meets AA Oral Communication requirement)
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- BUS 120 BUSINESS MANAGEMENT **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- CIM 1 - INTRODUCTION TO COMPUTER INFORMATION SYSTEMS **3 Units**
- or*
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**
- or*
- CIM 112 MICROSOFT OFFICE **3 Units**

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

### Total Units for the Major: 20.5-22

### 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.

## Business Leadership Associate in Science

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 how to assess human communication styles; plan and apply motivational strategies; solve human relations issues.

### Required Courses

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

### Restricted Electives: Specify Total 3 Units

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

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

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

### Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College. 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 education requirements. Refer to ASSIST.org and to the transfer institution's catalog for transfer requirements.

## Entrepreneurship Associate in Science

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 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

### Required Courses

- ACCT 235 ENTREPRENEURIAL ACCOUNTING **3 Units**
- BUS 1 INTRODUCTION TO BUSINESS **3 Units**
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**  
*or*
- BUS 106 LEGAL ASPECTS OF ENTREPRENEURSHIP **2 Units**
- BUS 103 BUSINESS ENGLISH **3 Units**  
*or*
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units \***  
*or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units \***
- BUS 104 BUSINESS COMMUNICATION **3 Units \***
- BUS 160 ENTREPRENEURSHIP **3 Units**
- Marketing and Communication Specialties **3-4.5 Units**
- Restricted Electives **3.5-4 Units**

### Total Units for the Major: 23-28

### Restricted Electives

- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- BUS 106 LEGAL ASPECTS OF ENTREPRENEURSHIP **2 Units**
- BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT **3 Units**
- BUS 108 SOCIAL ENTREPRENEURSHIP **3 Units** \*
- BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT **3 Units**
- BUS 120 BUSINESS MANAGEMENT **3 Units**
- BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW **3 Units**
- BUS 237 FINANCING THE ENTREPRENEURIAL BUSINESS **1.5 Units**
- CWE 180 CO-OP-ED-BUSINESS **1 Unit**  
or
- CWE 180 CO-OP-ED-BUSINESS **2 Units**  
or
- CWE 180 CO-OP-ED-BUSINESS **3 Units**

### Marketing and Communication Specialties

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- BUS 109 E-COMMERCE MARKETING **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 136 PRINCIPLES OF RETAILING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- BUS 138 ADVERTISING **3 Units**  
or
- CTVR 138 ADVERTISING **3 Units**
- CIMA 283E OFFICE SKILLS–WORD PROCESSING (WORD) **0.5 Unit**  
or
- CIMA 283F OFFICE SKILLS–SPREADSHEETS (EXCEL) **0.5 Unit**  
or
- CIMA 283G OFFICE SKILLS–DESKTOP PRESENTATION FOR BUS (POWERPOINT) **0.5 Unit**

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

### Associate in Science Degree

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

### 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 Associate in Science

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:

- Describe global business concepts, principles, and development of successful global business strategies.
- 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.

### Required Courses

- BUS 1 INTRODUCTION TO BUSINESS **3 Units**  
or
- BUS 1H HONORS INTRODUCTION TO BUSINESS **3 Units**
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- BUS 150 INTERNATIONAL BUSINESS **3 Units**
- BUS 260 SURVEY OF EXPORTING AND IMPORTING **3 Units**
- BUS 103 BUSINESS ENGLISH **3 Units**  
or
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- or
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*

### Restricted Electives: 6

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**  
or
- BUS 109 E-COMMERCE MARKETING **3 Units**
- BUS 106 LEGAL ASPECTS OF ENTREPRENEURSHIP **2 Units**
- BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT **3 Units**
- BUS 108 SOCIAL ENTREPRENEURSHIP **3 Units**
- BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT **3 Units**
- BUS 120 BUSINESS MANAGEMENT **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- BUS 138 ADVERTISING **3 Units**  
or
- CTVR 138 ADVERTISING **3 Units**
- BUS 160 ENTREPRENEURSHIP **3 Units**
- SP 20 INTERCULTURAL COMMUNICATION **3 Units**



- **CWE 180 CO-OP-ED-BUSINESS 1 Unit**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 2 Units**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 3 Units**

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

### **Total Units for the Major: 24-25**

### **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 qualify the student for the Associate in Science 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.

Suggested coursework not required for the major: BUS 116, 125, 136, 223.

## **Marketing Associate in Science**

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.

### **Required Courses**

- **BUS 1 INTRODUCTION TO BUSINESS 3 Units**
- **BUS 103 BUSINESS ENGLISH 3 Units**  
*or*
- **ENG 1A PRINCIPLES OF COMPOSITION I 4 Units \***  
*or*
- **ENG 1AH HONORS PRINCIPLES OF COMPOSITION I 4 Units \***
- **BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW 3 Units**
- **BUS 104 BUSINESS COMMUNICATION 3 Units \***
- **BUS 135 MARKETING 3 Units**
- **BUS 105 SOCIAL MEDIA MARKETING 3 Units**
- **Restricted Electives 6-7 Units**

### **Total Units for the Major: 24-26**

### **Restricted Electives**

- **BUS 102 ORAL BUSINESS COMMUNICATIONS 3 Units**
- **ACCT 1A FINANCIAL ACCOUNTING 4 Units**
- **BUS 138 ADVERTISING 3 Units**  
*or*
- **CTVR 138 ADVERTISING 3 Units**
- **BUS 109 E-COMMERCE MARKETING 3 Units**
- **BUS 136 PRINCIPLES OF RETAILING 3 Units**
- **BUS 137 PROFESSIONAL SELLING FUNDAMENTALS 3 Units**
- **BUS 160 ENTREPRENEURSHIP 3 Units**
- **BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT 3 Units**
- **BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT 3 Units**
- **CWE 180 CO-OP-ED-BUSINESS 1 Unit**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 2 Units**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 3 Units**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 4 Units**

### **Associate in Science Degree**

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

### **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 Associate in Science**

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.

### **Required Courses**

- **BUS 1 INTRODUCTION TO BUSINESS 3 Units**
- **BUS 125 HUMAN RELATIONS IN BUSINESS 3 Units**
- **BUS 137 PROFESSIONAL SELLING FUNDAMENTALS 3 Units**

- **CWE 180 CO-OP-ED-BUSINESS 1 Unit**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 2 Units**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 3 Units**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 4 Units**
- **CIM 112 MICROSOFT OFFICE 3 Units**
- **Select one Specialty Industry Area 12-15 Units**

### **Total Units for the Major: 25-31**

#### **Specialty Industry Areas**

##### **Area I - Management**

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

##### **Area II - Promotion**

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

##### **Area III - Merchandising**

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

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

#### **Associate in Science Degree**

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

#### **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 14, BUS 102, BUS 103, BUS 104, BUS 116, BUS 135, BUS 137, BUS 138, BUS 147, BUS 150, BUS 260; CIM 1, CIM 10, CIM 120, CIM 121A, CIMN 100, CIMN 100A, CIMN 100B; FASH 140, FASH 144, FASH 150.

### **Retail Management Associate in Science**

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.

#### **Required Courses**

- **ACCT 1A FINANCIAL ACCOUNTING 4 Units**
- **ACCT 214 BUSINESS ANALYSIS AND CALCULATIONS 3 Units**
- **BUS 102 ORAL BUSINESS COMMUNICATIONS 3 Units**
- **BUS 104 BUSINESS COMMUNICATION 3 Units \***
- **BUS 120 BUSINESS MANAGEMENT 3 Units**
- **BUS 125 HUMAN RELATIONS IN BUSINESS 3 Units**
- **BUS 135 MARKETING 3 Units**
- **BUS 136 PRINCIPLES OF RETAILING 3 Units**
- **BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW 3 Units**
- **CIM 1 COMPUTER INFORMATION SYSTEMS 4 Units**  
*or*
- **CIM 10 INTRODUCTION TO INFORMATION SYSTEMS 3 Units**  
*or*
- **CIM 112 MICROSOFT OFFICE 3 Units**

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

### **Total Units for the Major: 31-32**



## Associate in Science Degree

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

## 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 BUS 14, BUS 105, BUS 116, BUS 137, BUS 138, BUS 150, BUS 160.

## Business Administration Associate in Science 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.

## Required Courses

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 1B MANAGERIAL ACCOUNTING **4 Units \***
- ECON 4 PRINCIPLES (MICRO) **3 Units \***
- ECON 2 PRINCIPLES (MACRO) **3 Units \***
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**

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

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

## List B: Any List A not already used (5-6 units)

- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**  
*and*
- BUS 1 INTRODUCTION TO BUSINESS **3 Units**  
*or*
- BUS 104 BUSINESS COMMUNICATION **3 Units**

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

**Total Units for the Major: 27-29**

## Business Communication Skills Certificate of Achievement

Completion of this certificate provides students with the competencies needed for successful oral and written communication in workplace settings. The program emphasizes the skills demanded by employers regardless of industry. Students learn to create business documents, use effective interpersonal skills, and apply listening skills. This program prepares students for entry- to mid-level jobs in office work and other business areas that require strong communication skills. Furthermore, the required courses of this certificate apply toward the more in-depth certificate (25-27.5 units) in business communications.

## Program Student Learning Outcomes

Students who complete this program will be able to:

- Apply principles, planning, organization, and styles to written and oral business communications, including proper consideration of ethical, cultural, gender, and other aspects of the communication.
- Create appropriate written 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. They will use correct grammar, style, and format.
- Orally communicate clearly, effectively, and appropriately, including critical listening, communication with workplace superiors, coworkers, customers, clients; use telephone, webinar, and other online communications; use teamwork, meeting, and leadership skills, interviewing, business etiquette, presentations, as well as nonverbal communications.
- Behave in a professional manner appropriate to organizational expectations, including the exercise of initiative and self-direction and observation of laws, rules, and ethical practices.
- Apply analytical and organizational skills, including the ability to exercise judgment, manage finances and solve workplace problems, as well as ability to manage time and prioritize tasks.

## Required Courses

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units \***
- BUS 103 BUSINESS ENGLISH **3 Units**  
*or*
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units \***  
*or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units \***
- BUS 196 WORKPLACE SUCCESS SKILLS **1 Unit**
- Select from Restricted Electives **3-4.5 Units**

## Restricted Electives: Select 3-4.5 units from the following courses

- BUS 1 INTRODUCTION TO BUSINESS **3 Units**  
*or*
- BUS 1H HONORS INTRODUCTION TO BUSINESS **3 Units**
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- BUS 16 PERSONAL LAW, STREET LAW **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 160 ENTREPRENEURSHIP **3 Units**

- **CWE 180 CO-OP-ED-BUSINESS 1 Unit**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 2 Units**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 3 Units**
- **CIM 112 MICROSOFT OFFICE 3 Units**
- **CIMA 102 WORD PROCESSING - WORD 3 Units**
- **CIMA 102A WORD PROCESSING - WORD-BEGINNING 1.5 Units**
- **CIMA 102B WORD PROCESSING - WORD-ADVANCED 1.5 Units**
- **CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT 3 Units**
- **SP 5 INTERPERSONAL COMMUNICATION 3 Units**
- **SP 20 INTERCULTURAL COMMUNICATION 3 Units**

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

**Total Units for the Certificate: 13-15.5**

### **Business Communications Certificate of Achievement**

Completion of the Business Communication Certificate prepares students to use effective workplace communications, written and oral. Effective documents, reports, and other written communications, internal and external, print and electronic, are emphasized. Students learn to communicate clearly, use effective interpersonal skills, and apply listening skills, all for the business environment. While a vast array of occupations requires communications skills, occupations specific to communications include, but are not limited to, Media and Communication workers, Public Relations Assistants, Sales and Marketing Assistants, Office Assistants, Event Planners, Dispatchers, Fundraising Specialists, and Supervisors.

This certificate builds or "stacks" onto the Business Communication Skills Certificate and adds depth to students' familiarity with business functions and environments that provide the contexts for communications.

### **Program Student Learning Outcomes**

Students who complete this program will be able to:

- Apply principles, planning, organization, and styles to written and oral business communications, including consideration of ethical, cultural, gender, and other aspects of the communication.
- Use principles of effective business communication to create written 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. They will use correct grammar, style, and format.
- Orally communicate clearly, effectively, and appropriately, including critical listening, communication with workplace superiors, coworkers, customers, clients; use telephone, webinar, and other online communications; use teamwork, meeting, and leadership skills; use appropriate interviewing techniques, business etiquette, presentation skills, as well as nonverbal communications.

- Consider relevant fundamentals of legal systems, and social, ethical, and political forces affecting the operation and communications of businesses; apply familiarity with the functions of business 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, to business communications.
- Integrate expertise in technical knowledge and skills with thinking and reasoning strategies to create, innovate, and devise solutions.
- Behave in a professional manner appropriate to organizational expectations, including the exercise of initiative and self-direction and observation of laws, rules, and ethical practices.
- Create classic and contemporary marketing communications, including product and service planning, pricing, distribution, promotion, and uses of new technologies, including social media and e-commerce.

### **Required Courses**

- **BUS 1 INTRODUCTION TO BUSINESS 3 Units**  
*or*
- **BUS 1H HONORS INTRODUCTION TO BUSINESS 3 Units**
- **BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW 3 Units**
- **BUS 102 ORAL BUSINESS COMMUNICATIONS 3 Units**
- **BUS 104 BUSINESS COMMUNICATION 3 Units \***
- **BUS 103 BUSINESS ENGLISH 3 Units**  
*or*
- **ENG 1A PRINCIPLES OF COMPOSITION I 4 Units \***  
*or*
- **ENG 1AH HONORS PRINCIPLES OF COMPOSITION I 4 Units \***
- **BUS 125 HUMAN RELATIONS IN BUSINESS 3 Units**
- **BUS 105 SOCIAL MEDIA MARKETING 3 Units**  
*or*
- **BUS 109 E-COMMERCE MARKETING 3 Units**  
*or*
- **BUS 135 MARKETING 3 Units**
- **BUS 196 WORKPLACE SUCCESS SKILLS 1 Unit**
- **Select from Restricted Electives 3-4.5 Units**

### **Restricted Electives: Select 3-4.5 units from the following courses:**

- **CWE 180 CO-OP-ED-BUSINESS 1 Unit**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 2 Units**  
*or*
- **CWE 180 CO-OP-ED-BUSINESS 3 Units**
- **CIM 112 MICROSOFT OFFICE 3 Units**
- **CIMA 102 WORD PROCESSING - WORD 3 Units**
- **CIMA 102A WORD PROCESSING - WORD-BEGINNING 1.5 Units**
- **CIMA 102B WORD PROCESSING - WORD-ADVANCED 1.5 Units**
- **CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT 3 Units**
- **SP 5 INTERPERSONAL COMMUNICATION 3 Units**

- **SP 20 INTERCULTURAL COMMUNICATION 3 Units**  
\*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### **Total Units for the Certificate: 25-27.5**

## **Business Leadership Certificate of Achievement**

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 how to assess human communication styles; plan and apply motivational strategies; solve human relations issues.

### **Required Courses**

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

### **Restricted Electives: Specify Total 3 Units**

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

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

### **Total Units for the Certificate: 21-22**

## **Entrepreneurship Certificate of Achievement**

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:

- 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.
- Describe the entrepreneurial risks and challenges inherent in each major component of the entrepreneurial business.
- 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.

### **Required Courses**

- **ACCT 235 ENTREPRENEURIAL ACCOUNTING 3 Units**
- **BUS 1 INTRODUCTION TO BUSINESS 3 Units**
- **BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW 3 Units**  
*or*
- **BUS 106 LEGAL ASPECTS OF ENTREPRENEURSHIP 2 Units**
- **BUS 103 BUSINESS ENGLISH 3 Units**  
*or*
- **ENG 1A PRINCIPLES OF COMPOSITION I 4 Units \***  
*or*
- **ENG 1AH HONORS PRINCIPLES OF COMPOSITION I 4 Units \***
- **BUS 104 BUSINESS COMMUNICATION 3 Units \***
- **BUS 160 ENTREPRENEURSHIP 3 Units**
- **Marketing and Communication Specialties 3 - 4.5 Units**
- **Restricted Electives 3 - 4.5 Units**

### **Total Units for the Certificate: 23-28**

### **Restricted Electives**

- **BUS 105 SOCIAL MEDIA MARKETING 3 Units**
- **BUS 106 LEGAL ASPECTS OF ENTREPRENEURSHIP 2 Units**
- **BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT 3 Units**
- **BUS 108 SOCIAL ENTREPRENEURSHIP 3 Units \***
- **BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT 3 Units**
- **BUS 120 BUSINESS MANAGEMENT 3 Units**
- **BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW 3 Units**

- BUS 237 FINANCING THE ENTREPRENEURIAL BUSINESS **1.5 Units**
- CWE 180 CO-OP-ED-BUSINESS **1 Unit**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **2 Units**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **3 Units**

### Marketing and Communication Specialties

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- BUS 109 E-COMMERCE MARKETING **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 136 PRINCIPLES OF RETAILING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- BUS 138 ADVERTISING **3 Units**  
*or*
- CTVR 138 ADVERTISING **3 Units**
- CIMA 283E OFFICE SKILLS–WORD PROCESSING (WORD) **0.5 Unit**  
*or*
- CIMA 283F OFFICE SKILLS–SPREADSHEETS (EXCEL) **0.5 Unit**  
*or*
- CIMA 283G OFFICE SKILLS–DESKTOP PRESENTATION FOR BUS (POWERPOINT) **0.5 Unit**

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

## General Business Certificate of Achievement

The General Business Skills low-unit certificate prepares students for entry-level positions for many industries. Students learn how businesses operate, under what influences, with what stakeholders. They learn to communicate clearly on business matters, and they develop an understanding of human relations in the workplace. Completion of this low-unit certificate with the BUS 13 elective option provides students with the three core courses required of most of the Business Certificates of Achievement. Entry level positions that need the skills learned by students who complete this low-unit certificate include entry level office clerks, accounting assistants, production assistants, office assistants, recreation assistants, audio and video equipment assistants, billing and posting clerks, and many others across a wide range of industries.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Effectively and appropriately apply principles, planning, organization, and styles to written and oral business communications, including proper consideration of ethical, cultural, gender, and other aspects of the communication.
- Create appropriate written 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. Use correct grammar, style, and format.

- Apply familiarity with the functions of business 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, to business communications.
- Behave in a professional manner appropriate to organizational expectations, including getting along well with others, exercise of initiative and self-direction and observation of laws, rules, and ethical practices.
- Apply analytical and organizational skills, including the ability to exercise judgment, manage finances and solve workplace problems, as well as ability manage time and prioritize tasks.

### Required Courses

- BUS 1 INTRODUCTION TO BUSINESS **3 Units**  
*or*
- BUS 1H HONORS INTRODUCTION TO BUSINESS **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- BUS 103 BUSINESS ENGLISH **3 Units**  
*or*
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- BUS 196 WORKPLACE SUCCESS SKILLS **1 Unit**

### Restricted Electives 3 units

- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- BUS 16 PERSONAL LAW, STREET LAW **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 160 ENTREPRENEURSHIP **3 Units**
- CWE 180 CO-OP-ED-BUSINESS **1 Unit**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **2 Units**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **3 Units**
- CIM 112 MICROSOFT OFFICE **3 Units**
- CIMA 102 WORD PROCESSING - WORD **3 Units**
- CIMA 102A WORD PROCESSING - WORD–BEGINNING **1.5 Units**
- CIMA 102B WORD PROCESSING - WORD–ADVANCED **1.5 Units**
- CIMA 104 SPREADSHEETS - EXCEL **3 Units**
- CIMA 104A SPREADSHEETS - EXCEL–BEGINNING **1.5 Units**
- CIMA 104B SPREADSHEETS - EXCEL–INTERMEDIATE **1.5 Units**
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units**

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

**Total Units for the Certificate: 16-17**



## Global Business Certificate of Achievement

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:

- Describe global business concepts, principles, and development of successful global business strategies.
- Identify the fundamentals of legal systems, and social, ethical, and political forces affecting the development and operation of International 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.
- Create a plan for setting up an export or an import business.

### Required Courses

- BUS 1 INTRODUCTION TO BUSINESS **3 Units**  
*or*
- BUS 1H HONORS INTRODUCTION TO BUSINESS **3 Units**
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- BUS 150 INTERNATIONAL BUSINESS **3 Units**
- BUS 260 SURVEY OF EXPORTING AND IMPORTING **3 Units**
- BUS 103 BUSINESS ENGLISH **3 Units**  
*or*
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*

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

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 106 LEGAL ASPECTS OF ENTREPRENEURSHIP **2 Units**
- BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT **3 Units**
- BUS 108 SOCIAL ENTREPRENEURSHIP **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**  
*or*
- BUS 109 E-COMMERCE MARKETING **3 Units**
- BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT **3 Units**
- BUS 120 BUSINESS MANAGEMENT **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- BUS 138 ADVERTISING **3 Units**  
*or*
- CTVR 138 ADVERTISING **3 Units**

- BUS 160 ENTREPRENEURSHIP **3 Units**
- SP 20 INTERCULTURAL COMMUNICATION **3 Units**
- CWE 180 CO-OP-ED-BUSINESS **1 Unit**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **2 Units**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **3 Units**

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

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

## Marketing Certificate of Achievement

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.

### Required Courses

- BUS 1 INTRODUCTION TO BUSINESS **3 Units**
- BUS 103 BUSINESS ENGLISH **3 Units**  
*or*
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- BUS 135 MARKETING **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- Restricted Electives **6-7 Units**

**Total Units for the Certificate: 24-26**

### Restricted Electives

- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- BUS 138 ADVERTISING **3 Units**  
*or*
- CTVR 138 ADVERTISING **3 Units**
- BUS 109 E-COMMERCE MARKETING **3 Units**
- BUS 136 PRINCIPLES OF RETAILING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**

- BUS 160 ENTREPRENEURSHIP **3 Units**
- BUS 107 INNOVATION AND NEW PRODUCT DEVELOPMENT **3 Units**
- BUS 111 BUSINESS SUSTAINABILITY STRATEGIES, PEOPLE - PLANET - PROFIT **3 Units**
- CWE 180 CO-OP-ED-BUSINESS **1 Unit**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **2 Units**
- CWE 180 CO-OP-ED-BUSINESS **3 Units**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **4 Units**

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

### **New Media Marketing Certificate of Achievement**

This certificate in New Media Marketing is designed to prepare students for various marketing, sales, and retail store entry-level or management assistant positions; to assist existing marketing managers and sales professionals in upgrading their skills; and to open new career opportunities within the marketing field. Upon successful completion of the requirements for this certificate, students will have enough knowledge of marketing to succeed in an entry-level position related to marketing.

#### **Program Student Learning Outcomes**

Students who complete this program will be able to:

- Apply effective classic and contemporary marketing functions, including strategic planning, pricing, distribution, promotion, product and service development, and uses of new technologies, including social media and e-commerce.
- Use essential employability skills, including: communication, collaboration, thinking and innovation, professionalism, initiative and self-direction, intergenerational and cross-cultural competence, organizational culture, and legal and ethical practices.
- Integrate expertise in technical knowledge and skills with thinking and reasoning strategies to create, innovate, and devise solutions.
- Behave in a professional manner appropriate to organizational expectations, including the exercise of initiative and self-direction and observation of laws, rules, and ethical practices.

#### **Required Courses**

- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 196 WORKPLACE SUCCESS SKILLS **1 Unit**
- Restricted Electives **6 Units**

#### **Restricted Electives - Select 6 units from the following:**

- BUS 1 INTRODUCTION TO BUSINESS **3 Units**
- BUS 1H HONORS INTRODUCTION TO BUSINESS **3 Units**
- BUS 13 LEGAL ENVIRONMENT AND BUSINESS LAW **3 Units**
- BUS 109 E-COMMERCE MARKETING **3 Units**
- BUS 136 PRINCIPLES OF RETAILING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- BUS 138 ADVERTISING **3 Units**
- CWE 180 CO-OP-ED-BUSINESS **1 Unit**
- CIM 112 MICROSOFT OFFICE **3 Units**

- CIM 274A Web Digital Imagery - Photoshop - Beginning **1.5 Units**
- CIMA 102 WORD PROCESSING - WORD **3 Units**
- CIMA 102A WORD PROCESSING - WORD-BEGINNING **1.5 Units**
- CIMA 102B WORD PROCESSING - WORD-ADVANCED **1.5 Units**
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units**

\*Course has a pre-requisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Certificate: 13**

### **Professional Retailing Certificate of Achievement**

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.

#### **Required Courses**

- BUS 1 INTRODUCTION TO BUSINESS **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- CWE 180 CO-OP-ED-BUSINESS **1 Unit**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **2 Units**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **3 Units**  
*or*
- CWE 180 CO-OP-ED-BUSINESS **4 Units**
- CIM 112 MICROSOFT OFFICE **3 Units**
- Select one Specialty Industry Area **12-15 Units**

**Total Units for the Certificate: 25-31**

#### **Specialty Industry Areas**

##### **Area I - Management**

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



**Area II - Promotion**

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

**Area III - Merchandising**

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

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

## **Retail Management Certificate of Achievement**

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.

**Required Courses**

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 214 BUSINESS ANALYSIS AND CALCULATIONS **3 Units**
- BUS 102 ORAL BUSINESS COMMUNICATIONS **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- BUS 120 BUSINESS MANAGEMENT **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 136 PRINCIPLES OF RETAILING **3 Units**
- BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW **3 Units**
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**  
*or*
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**  
*or*
- CIM 112 MICROSOFT OFFICE **3 Units**

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

**Total Units for the Certificate: 31-32**

## **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.

**Required Courses**

- ACCT 235 ENTREPRENEURIAL ACCOUNTING **3 Units**
- BUS 160 ENTREPRENEURSHIP **3 Units**
- BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW **3 Units**
- BUS 237 FINANCING THE ENTREPRENEURIAL BUSINESS **1.5 Units**

**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.

**Required Courses**

- BUS 120 BUSINESS MANAGEMENT **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- BUS 223 HUMAN RESOURCES AND EMPLOYMENT LAW **3 Units**

**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.

### Required Courses

- BUS 120 BUSINESS MANAGEMENT **3 Units**
- BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- CIMA 212 MANAGING PROJECTS WITH MICROSOFT PROJECT **3 Units**

**Total Units for the Award: 9**

## Chemistry Associate of Science

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 nomenclature.
- 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.

#### First Year

- CHEM 1A GENERAL CHEMISTRY **5 Units** \*
- CHEM 1B GENERAL CHEMISTRY **5 Units** \*

#### Second Year

- CHEM 12A ORGANIC CHEMISTRY **5 Units** \*
- CHEM 12B ORGANIC CHEMISTRY **5 Units** \*

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

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

**Total Units for the Major: 20**

## Associate of 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 of Science 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.

## 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.

## Elementary Teacher Education Associate in Arts 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.

## Required Courses

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

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

- ENG 1B PRINCIPLES OF COMPOSITION II **3 Units \***
- ENG 170 Reasoning and College Reading **3 Units**

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

- ARTH 20 ART APPRECIATION **3 Units**
- MUS 20 MUSIC APPRECIATION **3 Units**
- TA 20 THEATRE APPRECIATION **3 Units**

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

- ENG 142 CHILDREN'S LITERATURE **3 Units \***
- ENG 17A SURVEY OF ENGLISH LITERATURE - BEOWULF TO ROMANTIC MOVEMENT **3 Units \***
- ENG 17B SURVEY OF ENGLISH LIT - ROMANTIC MOVEMENT TO THE PRESENT **3 Units \***
- ENG 15A SURVEY OF AMERICAN LITERATURE - 1620-1860 **3 Units \***
- ENG 15B SURVEY OF AMERICAN LITERATURE - 1860-CONTEMPORARY **3 Units \***
- PHIL 1 INTRODUCTION TO PHILOSOPHY **3 Units \***
- PHIL 15 INTRODUCTION TO ETHICS **3 Units \***
- HUM 1 INTRODUCTION TO HUMANITIES **3 Units \***
- HUM 21 THE SEARCH FOR MEANING - IDEAS OF SELF ACROSS CULTURES **3 Units \***
- ANTH 3 CULTURE AND LANGUAGE **3 Units \***

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

## Total Units for the Major: 58

## Early Childhood Education Associate of Science

This degree prepares students to be competent and effective teachers and caregivers for young children ages 0-8. Developmental and learning theory as well as appropriate strategies related to the unique care and education needs of young children will be studied and applied. Family collaboration and culturally responsive practice will be emphasized. Students who complete this degree meet the educational requirements for the Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CTCC) and can be employed in children's settings such as child care centers, church schools, employee sponsored child care, and early Head Start as teachers and caregivers. With an appropriate

general education pattern students are also prepared to transfer to Child Development and Early Childhood studies baccalaureate degrees. Additional work with children (175 days of 3+ hours per day within 4 years) is required to obtain the Teacher Permit.

A minimum grade of "C" in each course is required to receive the degree and/or qualify for the Child Development Permit.

## 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 0-8.
- Apply developmental theory, knowledge of child development, developmentally, culturally, and linguistically appropriate practice (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.

## Core Courses

- CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units \***
- CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units \***
- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units \***
- CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units \***
- CDE 110 INTRODUCTION TO CURRICULUM **3 Units \***
- CDE 111 CHILD GUIDANCE AND COMMUNICATION **3 Units \***
- CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units \***
- CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units \***
- CDE 120 OBSERVATION AND ASSESSMENT **3 Units \***
- CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units \***

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

## Total Units for the Major: 29

## Associate of Science 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 of Science 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.

## Early Childhood Education Associate in Science for Transfer

The curriculum in this program is designed prepare students to be teachers and caregivers for young children ages 0-8 and to provide the transfer student an opportunity to achieve an Associate Degree for Transfer in Early Childhood Education by providing the necessary breadth in the field aligned to state and national standards, an introduction to the methods used, and the ability to complete both major preparatory coursework along with courses required for general education. Developmental and learning theory and strategies related to the unique care and education needs of young children will be studied and applied. Family collaboration and culturally responsive practice will be emphasized. Students who complete this degree meet the educational requirements for the Teacher level of the Child Development Permit. Students who complete this 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.

### 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 0-8 years.
- Apply developmental theory, knowledge of child development, DCCLAP, 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.

### Core Courses

- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units** \*  
*or*
  - CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units** \*
  - CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units** \*
  - CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units** \*
  - CDE 110 INTRODUCTION TO CURRICULUM **3 Units** \*
  - CDE 120 OBSERVATION AND ASSESSMENT **3 Units** \*
  - CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units** \*
  - CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units** \*
  - CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units** \*
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Major: 26**

## Associate Teacher Certificate of Achievement

Designed to meet the coursework requirements for the Associate Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CCTC), this certificate prepares students for entry level positions in early childhood care and education. Introductory developmental and learning theory as well as appropriate strategies for the care and education of young children will be studied and applied. Additional work with children (50 days of 3+ hours per day) is required to obtain the Associate Teacher Permit. All courses must be completed with a C or better.

### 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.
- Identify a range of skills and knowledge related to the unique needs of children ages 0-8 years.
- Describe developmentally appropriate teaching practices for children ages 0-8.

### Required Courses

- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units** \*  
*or*
  - CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units** \*
  - CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units** \*
  - CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units** \*
  - CDE 110 INTRODUCTION TO CURRICULUM **3 Units** \*
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Certificate: 12**

## Early Childhood Teacher Certificate of Achievement

This certificate meets the education requirements of the Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CCTC). Developmental and learning theory as well as appropriate strategies for teaching and caring for children ages birth to 8 will be studied and applied. Family collaboration, cultural sensitivity, and relationship based practice will be emphasized. This certificate prepares students to provide competent and effective care and instruction of children in a child care and development program, and supervise an associate teacher, assistant teacher, classroom aide and/or volunteer in a variety of children's settings. Additional work with children (175 days of 3+ hours per day within 4 years) is required to obtain the Teacher Permit.

A minimum grade of "C" in each course is required to receive the certificate and/or qualify for the Child Development Permit.

### 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 0-8 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.

### Core Courses

- CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units**
- CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units**
- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units**  
or
- CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units \***
- CDE 110 INTRODUCTION TO CURRICULUM **3 Units \***
- CDE 111 CHILD GUIDANCE AND COMMUNICATION **3 Units \***
- CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units \***
- CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units \***
- CDE 120 OBSERVATION AND ASSESSMENT **3 Units \***
- CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units \***

### General Education (16 units)

At least one course in each of the 4 identified general education areas:

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

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

### Total Units for the Certificate: 45

#### **\*\* Infant Toddler Teacher \*\* Certificate of Achievement**

This certificate meets the education requirements of the Teacher level Child Development Permit issued by the California Commission on Teacher Credentialing (CTC). Developmental and learning theory as well as appropriate strategies related to the unique care and education needs of children ages 0-36 months will be studied and applied. Family collaboration and relationship-based practices will be emphasized. This certificate prepares students to be competent and effective teachers and caregivers of infants and toddlers in a variety of home and center-based settings. Additional work with children is required to obtain CTC's Teacher Permit.

A minimum grade of "C" in each course is required to earn the certificate and/or qualify for the Child Development Permit.

### 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.

### Core Courses

- CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units \***
- CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units \***
- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units \***  
or
- CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units \***
- CDE 110 INTRODUCTION TO CURRICULUM **3 Units \***
- CDE 111 CHILD GUIDANCE AND COMMUNICATION **3 Units \***
- CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units \***
- CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units \***
- CDE 120 OBSERVATION AND ASSESSMENT **3 Units \***
- CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units \***

#### **\*\*ADDITIONAL INFORMATION\*\***

The full Infant Toddler Teacher Certificate of Achievement is on pages 204-205.

Please go to those pages to view the full program.

### Total Units for the Certificate: 51-54

#### **Master Teacher Certificate of Achievement**

This certificate meets the coursework requirements for the Master Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CTC) and prepares students to be competent and effective teachers and caregivers for young children ages 0-8, supervisors of adults in early childhood settings, and to serve as a coordinator of curriculum and staff development. Developmental and learning theory as well as appropriate strategies will be studied and applied. Culturally sensitive and relationship based practice will be emphasized. Additional work experience with children and adults is required to obtain the CTC Master Teacher Permit.



A minimum grade of "C" in each course is required to earn the certificate and/or qualify for the Child Development Permit.

### 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 0-8 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.

### Core Courses

- CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units** \*
  - CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units** \*
  - CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units** \*  
or
  - CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units** \*
  - CDE 110 INTRODUCTION TO CURRICULUM **3 Units** \*
  - CDE 111 CHILD GUIDANCE AND COMMUNICATION **3 Units** \*
  - CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units** \*
  - CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units** \*
  - CDE 120 OBSERVATION AND ASSESSMENT **3 Units** \*
  - CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units** \*
  - CDE 127 ADULT SUPERVISION AND MENTORING **3 Units** \*
- Select from Required Breadth **16-19 Units**  
Required Specialization **6 Units**

### Total Units for the Certificate: 54-57

### Required Breadth

Students must complete area 1, select one course from each of areas 2, 3, and 4, and select one additional course from area 2, 3, or 4, **16-19 Units**

#### Area 1

- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*  
or
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*

#### Area 2

- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*  
or
- MATH 14 MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS **5 Units** \*  
or
- MATH 103 MATHEMATICAL IDEAS **3 Units** \*  
or
- PSYC 44 STATISTICS FOR THE BEHAVIORAL SCIENCES **3 Units** \*  
or
- ANTH 1 BIOLOGICAL ANTHROPOLOGY **3 Units**  
or
- ANTH 1H HONORS BIOLOGICAL ANTHROPOLOGY **3 Units**  
or
- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**  
or
- GEOG 1 PHYSICAL GEOGRAPHY **3 Units**  
or
- GEOG 1H HONORS PHYSICAL GEOGRAPHY **3 Units**  
or
- GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY **4 Units**  
or
- GEOL 20 INTRODUCTION TO EARTH SCIENCE **4 Units**  
or
- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**

#### Area 3

- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**  
or
- ANTH 2H HONORS CULTURAL ANTHROPOLOGY **3 Units**  
or
- GEOG 2 CULTURAL GEOGRAPHY **3 Units**  
or
- GEOG 2H HONORS CULTURAL GEOGRAPHY **3 Units**  
or
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**  
or
- SOC 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**  
or
- SOC 30 SOCIAL PSYCHOLOGY **3 Units**  
or
- PS 1 AMERICAN GOVERNMENT **3 Units**  
or
- PS 1H HONORS AMERICAN GOVERNMENT **3 Units**

#### Area 4

- ENG 142 CHILDREN'S LITERATURE **3 Units** \*  
or
- ARTH 20 ART APPRECIATION **3 Units**  
or
- MUS 1 THE BASICS OF MUSIC **3 Units**  
or

- MUS 20 MUSIC APPRECIATION **3 Units**  
*or*
- DANC 64 HISTORY OF DANCE **3 Units**  
*or*
- HORT 115 HISTORY OF LANDSCAPE DESIGN **3 Units**  
*or*
- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**

### Required Specialization

**Students complete 6 units from one of the 3 specialization options: Infant/Toddler, Special Needs, or Curriculum 6 Units**

#### Infant /Toddler

- CDE 123 INFANT AND TODDLER DEVELOPMENT **3 Units** \*
- CDE 133 CARE AND EDUCATION FOR INFANTS AND TODDLERS **3 Units** \*

#### Special Needs

- CDE 135 INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS **3 Units** \*
- CDE 140 CURRICULUM AND STRATEGIES FOR CHILDREN WITH SPECIAL NEEDS **3 Units** \*

#### Curriculum

- CDE 113 MATH AND SCIENCE CURRICULUM EARLY CHILDHOOD EDUCATION **3 Units** \*
- CDE 114 CREATIVE ART CURRICULUM FOR YOUNG CHILDREN **3 Units** \*
- CDE 115 LITERACY CURRICULUM IN EARLY CHILDHOOD EDUCATION **3 Units** \*

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

## School-Age Care and Recreation Certificate of Achievement

This certificate meets the course requirements of the Teacher level Child Development Permit issued by the California Commission on Teacher Credentialing (CTC) with a School-Age Authorization. Developmental and learning theory as well as appropriate strategies related to the care and recreation of children in before and after school settings will be studied and applied. Family collaboration and relationship based practice will be emphasized. This certificate is especially suited for individuals working as before and after school recreation leaders and caregivers in a variety of settings that serve school age children. Additional work with children is required to obtain the CTC Teacher Permit.

A minimum grade of "C" in each course is required to earn the certificate and/or qualify for the Child Development Permit.

### 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 needs of school age children in before and after school recreation settings.
- Use the ongoing cycle of curriculum development to plan, implement and evaluate curriculum including environments based on developmentally, culturally, linguistically appropriate practices.

- Apply developmental theory, knowledge of child development, DCLAP, and research based teaching strategies to develop curriculum for the unique educational needs of 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 of teachers of young children.

### Core Courses

- CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units** \*
- CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units** \*
- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units** \*  
*or*
- CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units** \*
- CDE 110 INTRODUCTION TO CURRICULUM **3 Units** \*
- CDE 111 CHILD GUIDANCE AND COMMUNICATION **3 Units** \*
- CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units** \*
- CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units** \*
- CDE 120 OBSERVATION AND ASSESSMENT **3 Units** \*
- CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units** \*
- CDE 125 SCHOOL-AGE BEFORE AND AFTER SCHOOL PROGRAMS **3 Units** \*
- Select from Required Breadth **16-19 Units**

### Total Units for the Certificate: 48-51

#### Required Breadth

Students must complete area 1, select one course from each of areas 2, 3, and 4, and select one additional course from area 2, 3, or 4, **16-19 Units**

#### Area 1

- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*  
*or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*

#### Area 2

- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*  
*or*
- MATH 14 MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS **5 Units** \*
- MATH 103 MATHEMATICAL IDEAS **3 Units** \*  
*or*
- PSYC 44 STATISTICS FOR THE BEHAVIORAL SCIENCES **3 Units** \*  
*or*
- ANTH 1 BIOLOGICAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 1H HONORS BIOLOGICAL ANTHROPOLOGY **3 Units**  
*or*

- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**  
*or*
- GEOG 1 PHYSICAL GEOGRAPHY **3 Units**  
*or*
- GEOG 1H HONORS PHYSICAL GEOGRAPHY **3 Units**  
*or*
- GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY **4 Units**  
*or*
- GEOL 20 INTRODUCTION TO EARTH SCIENCE **4 Units**  
*or*
- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**

### Area 3

- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 2H HONORS CULTURAL ANTHROPOLOGY **3 Units**  
*or*
- GEOG 2 CULTURAL GEOGRAPHY **3 Units**  
*or*
- GEOG 2H HONORS CULTURAL GEOGRAPHY **3 Units**  
*or*
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**  
*or*
- SOC 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**  
*or*
- SOC 30 SOCIAL PSYCHOLOGY **3 Units**  
*or*
- PS 1 AMERICAN GOVERNMENT **3 Units**  
*or*
- PS 1H HONORS AMERICAN GOVERNMENT **3 Units**

### Area 4

- ENG 142 CHILDREN'S LITERATURE **3 Units** \*  
*or*
- ARTH 20 ART APPRECIATION **3 Units**  
*or*
- MUS 1 THE BASICS OF MUSIC **3 Units**  
*or*
- MUS 20 MUSIC APPRECIATION **3 Units**  
*or*
- DANC 64 HISTORY OF DANCE **3 Units**  
*or*
- HORT 115 HISTORY OF LANDSCAPE DESIGN **3 Units**  
*or*
- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**

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

## Site Supervisor Certificate of Achievement

This certificate is designed for students who will be single-site supervisors under Title 5 regulations or directors for centers regulated by Title 22. Students have opportunities to learn and apply developmentally appropriate and relationship based curriculum based on observations of children and various settings. They will implement and evaluate various teaching strategies in supervised settings, and learn administration and leadership skills. Students who earn this certificate and meet experience requirements as identified by the CA Commission on Teacher Credentialing (CTC) are eligible to supervise a child care and development program operating at a single site; provide service in the care, development, and instruction of children in a child care and development program; and serve as a coordinator of curriculum and staff development. Additional work with children and adults is required to obtain the CTC Site Supervisor Permit.

A minimum grade of "C" in each course is required to earn the certificate and/or qualify for the Child Development Permit Core Courses.

### 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 needs of children ages 0-8 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 supervising program staff, financial management, licensing regulations 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 of teachers of young children.

### Core Courses

- CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units** \*
- CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units** \*
- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units** \*  
*or*
- CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units** \*
- CDE 110 INTRODUCTION TO CURRICULUM **3 Units** \*
- CDE 111 CHILD GUIDANCE AND COMMUNICATION **3 Units** \*
- CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units** \*
- CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units** \*
- CDE 120 OBSERVATION AND ASSESSMENT **3 Units** \*
- CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units** \*

- CDE 127 ADULT SUPERVISION AND MENTORING **3 Units** \*
- CDE 128 ADMINISTRATION I - PROGRAMS IN EARLY CHILDHOOD EDUCATION **3 Units** \*
- CDE 129 ADMINISTRATION II-PERSONNEL & LEADERSHIP EARLY CHILDHOOD ED **3 Units** \*
- Select from Required Breadth **16-19 Units**

### Total Units for the Certificate: 54-57

#### Required Breadth

Students must complete area 1, select one course from each of areas 2, 3, and 4, and select one additional course from area 2, 3, or 4, **16-19 Units**

#### Area 1

- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*

#### Area 2

- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*
- or*
- MATH 14 MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS **5 Units** \*
- or*
- MATH 103 MATHEMATICAL IDEAS **3 Units** \*
- or*
- PSYC 44 STATISTICS FOR THE BEHAVIORAL SCIENCES **3 Units** \*
- or*
- ANTH 1 BIOLOGICAL ANTHROPOLOGY **3 Units**
- or*
- ANTH 1H HONORS BIOLOGICAL ANTHROPOLOGY **3 Units**
- or*
- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**
- or*
- GEOG 1 PHYSICAL GEOGRAPHY **3 Units**
- or*
- GEOG 1H HONORS PHYSICAL GEOGRAPHY **3 Units**
- or*
- GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY **4 Units**
- or*
- GEOL 20 INTRODUCTION TO EARTH SCIENCE **4 Units**
- or*
- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**

#### Area 3

- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**
- or*
- ANTH 2H HONORS CULTURAL ANTHROPOLOGY **3 Units**
- or*
- GEOG 2 CULTURAL GEOGRAPHY **3 Units**
- or*
- GEOG 2H HONORS CULTURAL GEOGRAPHY **3 Units**
- or*
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**
- or*

- SOC 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**
- or*
- SOC 30 SOCIAL PSYCHOLOGY **3 Units**
- or*
- PS 1 AMERICAN GOVERNMENT **3 Units**
- or*
- PS 1H HONORS AMERICAN GOVERNMENT **3 Units**

#### Area 4

- ENG 142 CHILDREN'S LITERATURE **3 Units** \*
- or*
- ARTH 20 ART APPRECIATION **3 Units**
- or*
- MUS 1 THE BASICS OF MUSIC **3 Units**
- or*
- MUS 20 MUSIC APPRECIATION **3 Units**
- or*
- DANC 64 HISTORY OF DANCE **3 Units**
- or*
- HORT 115 HISTORY OF LANDSCAPE DESIGN **3 Units**
- or*
- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**

\*Course has a prerequisite, co-requisite, limitation, or recommended preparation; see course description in catalog.

## Cinema-Television-Radio Associate of Science

The Cinema/Television/Radio degree provides preparation for work in the media industry through six specialty options: Cinema, Television, Radio, Post Production, Screen Acting, or Critical Studies. The core coursework provides a foundation for students who intend to transfer into majors such as Radio-Television-Film, Television, Video, Film, and Electronic Arts. Topics focus on specialized technical skills that mirror real-world tasks as well as specific media analysis. Opportunities to build the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field are embedded throughout the program. Jobs that utilize the knowledge and skills in this degree include camera operator, video journalist, TV show researcher, film editor, voice-over talent and/or film/TV show talent. This program provides and encourages both field and studio work in the student's area of specialty. Course options include 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.

### Required Courses

- CTVR 40 TELEVISION AND FILM SCRIPTWRITING I **3 Units**
- CTVR 101 VIDEO PRODUCTION BASICS **3 Units**
- Completion of one of the following specialty areas **15 Units**

### Total Units for the Major: 21



## Cinema Specialty

### Required Courses

- CTVR 31 FILM PRODUCTION I **3 Units** \*
- CTVR 32 FILM PRODUCTION II **3 Units** \*

### Restricted Electives: (9 units)

- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units** \*
- CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM **3 Units** \*
- CTVR 124 TELEVISION PRODUCTION I **3 Units** \*
- CTVR 125 TELEVISION PRODUCTION II **3 Units** \*
- CTVR 129 DOCUMENTARY PRODUCTION **3 Units** \*
- CTVR 140 TELEVISION AND FILM SCRIPTWRITING II **3 Units** \*
- CTVR 151 NON-LINEAR EDITING I **3 Units**
- CTVR 233 FILM PRODUCTION III **3 Units** \*
- CTVR 251 NON-LINEAR EDITING II **3 Units** \*
- CTVR 253 DIGITAL SPECIAL EFFECTS **3 Units** \*
- CTVR 262 PRODUCTION MANAGEMENT **3 Units**
- CTVR 264 CINEMATOGRAPHY **2 Units** \*
- CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units** \*
- CTVR 290 ACTING FOR THE CAMERA I **3 Units**
- CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **2 Units**

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

## Television Specialty

### Required Courses

- CTVR 124 TELEVISION PRODUCTION I **3 Units** \*
- CTVR 125 TELEVISION PRODUCTION II **3 Units** \*

### Restricted Electives: (9 units)

- CTVR 31 FILM PRODUCTION I **3 Units** \*
- CTVR 32 FILM PRODUCTION II **3 Units** \*
- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units** \*
- CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM **3 Units** \*
- CTVR 129 DOCUMENTARY PRODUCTION **3 Units** \*
- CTVR 140 TELEVISION AND FILM SCRIPTWRITING II **3 Units** \*
- CTVR 151 NON-LINEAR EDITING I **3 Units**
- CTVR 191 VOICE-OVER AND ANNOUNCING **3 Units**
- CTVR 251 NON-LINEAR EDITING II **3 Units** \*
- CTVR 253 DIGITAL SPECIAL EFFECTS **3 Units** \*
- CTVR 262 PRODUCTION MANAGEMENT **3 Units**
- CTVR 264 CINEMATOGRAPHY **2 Units** \*
- CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units** \*
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **2 Units**

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

## Radio Specialty

### Required Courses

- CTVR 110 AUDIO PRODUCTION **3 Units**
- CTVR 113 RADIO BROADCASTING **3 Units** \*

### Restricted Electives: (9 units)

- CTVR 31 FILM PRODUCTION I **3 Units** \*
- CTVR 32 FILM PRODUCTION II **3 Units** \*
- CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM **3 Units** \*
- CTVR 114 RADIO STATION ACTIVITIES **2 Units** \*
- CTVR 115 ADVANCED RADIO PERFORMANCE AND STUDIO OPERATIONS **2 Units** \*
- CTVR 124 TELEVISION PRODUCTION I **3 Units** \*
- CTVR 125 TELEVISION PRODUCTION II **3 Units** \*
- CTVR 140 TELEVISION AND FILM SCRIPTWRITING II **3 Units** \*
- CTVR 191 VOICE-OVER AND ANNOUNCING **3 Units**
- CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units** \*
- CTVR 290 ACTING FOR THE CAMERA I **3 Units**
- CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **2 Units**

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

## Post Production Specialty

### Required Courses

- CTVR 151 NON-LINEAR EDITING I **3 Units**
- CTVR 251 NON-LINEAR EDITING II **3 Units** \*

### Restricted Electives: (9 units)

- CTVR 31 FILM PRODUCTION I **3 Units** \*
- CTVR 32 FILM PRODUCTION II **3 Units** \*
- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units** \*
- CTVR 110 AUDIO PRODUCTION **3 Units**
- CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM **3 Units** \*
- CTVR 124 TELEVISION PRODUCTION I **3 Units** \*
- CTVR 125 TELEVISION PRODUCTION II **3 Units** \*
- CTVR 129 DOCUMENTARY PRODUCTION **3 Units** \*
- CTVR 253 DIGITAL SPECIAL EFFECTS **3 Units** \*
- CTVR 262 PRODUCTION MANAGEMENT **3 Units**
- CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units** \*
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **2 Units**

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



## Screen Acting and Voice Performance Specialty

### Required Courses

- CTVR 290 ACTING FOR THE CAMERA I **3 Units**
- CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER **3 Units**

### Restricted Electives: (9 units)

- CTVR 31 FILM PRODUCTION I **3 Units** \*
- CTVR 32 FILM PRODUCTION II **3 Units** \*
- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units** \*
- CTVR 104 COLD READING AND INTERVIEW TECHNIQUES **3 Units**
- CTVR 110 AUDIO PRODUCTION **3 Units**
- CTVR 124 TELEVISION PRODUCTION I **3 Units** \*
- CTVR 125 TELEVISION PRODUCTION II **3 Units** \*
- CTVR 129 DOCUMENTARY PRODUCTION **3 Units** \*
- CTVR 140 TELEVISION AND FILM SCRIPTWRITING II **3 Units** \*
- CTVR 191 VOICE-OVER AND ANNOUNCING **3 Units**
- CTVR 262 PRODUCTION MANAGEMENT **3 Units**
- CTVR 264 CINEMATOGRAPHY **2 Units** \*
- CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units** \*
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **2 Units**

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

## Critical Studies Specialty

### Required Courses

- CTVR 2 HISTORY AND APPRECIATION OF TELEVISION BROADCASTING **3 Units**
- CTVR 3 THE HISTORY AND APPRECIATION OF AMERICAN CINEMA **3 Units**

### Restricted Electives: (9 units)

- CTVR 4 AESTHETICS OF CINEMA **3 Units**
- CTVR 5 HISTORY AND APPRECIATION OF INTERNATIONAL CINEMA **3 Units**
- CTVR 7 CROSS CULTURAL CINEMA **3 Units**
- CTVR 9 WOMEN IN CINEMA AND TELEVISION **3 Units**
- CTVR 140 TELEVISION AND FILM SCRIPTWRITING II **3 Units** \*
- CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units** \*
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **2 Units**
- ENG 52 THE FILM AS LITERATURE **3 Units** \*

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

## Associate of Science 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 of Science 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.

## Cinema-Television-Radio Certificate of Achievement

The Cinema/Television/Radio certificate provides preparation for work in the media industry through six specialty options: Cinema, Television, Radio, Post Production, Screen Acting, or Critical Studies. The courses focus on specialized technical skills that mirror real-world tasks as well as specific media analysis. Additionally, courses offer the opportunity to build the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field. Students who complete this certificate can work in a variety of jobs including camera operator, video journalist, TV show researcher, film editor, voice-over talent and/or film/TV show talent.

### Program Student Learning Outcomes

Upon successful completion of the program, students will be able to:

- Accurately use the language and vocabulary of video production.
- Apply skills and knowledge required for employment in their selected specialty.
- Produce a demo reel showcasing media industry skills.

### Required Courses

- CTVR 40 TELEVISION AND FILM SCRIPTWRITING I **3 Units**
- CTVR 101 VIDEO PRODUCTION BASICS **3 Units**
- Completion of one of the following specialty areas **15 Units**

### Total Units for the Certificate: 21

### Cinema Specialty

#### Required Courses

- CTVR 31 FILM PRODUCTION I **3 Units** \*
- CTVR 32 FILM PRODUCTION II **3 Units** \*

#### Restricted Electives: (9 units)

- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units** \*
- CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM **3 Units** \*
- CTVR 124 TELEVISION PRODUCTION I **3 Units** \*
- CTVR 125 TELEVISION PRODUCTION II **3 Units** \*
- CTVR 129 DOCUMENTARY PRODUCTION **3 Units** \*
- CTVR 140 TELEVISION AND FILM SCRIPTWRITING II **3 Units** \*
- CTVR 151 NON-LINEAR EDITING I **3 Units**
- CTVR 233 FILM PRODUCTION III **3 Units** \*
- CTVR 251 NON-LINEAR EDITING II **3 Units** \*
- CTVR 253 DIGITAL SPECIAL EFFECTS **3 Units** \*
- CTVR 262 PRODUCTION MANAGEMENT **3 Units**
- CTVR 264 CINEMATOGRAPHY **2 Units** \*
- CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units** \*
- CTVR 290 ACTING FOR THE CAMERA I **3 Units**
- CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**

- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 2 Units**

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

### Television Specialty

#### Required Courses

- **CTVR 124 TELEVISION PRODUCTION I 3 Units \***
- **CTVR 125 TELEVISION PRODUCTION II 3 Units \***

#### Restricted Electives: (9 units)

- **CTVR 31 FILM PRODUCTION I 3 Units \***
- **CTVR 32 FILM PRODUCTION II 3 Units \***
- **CTVR 42 TELEVISION AND FILM DIRECTING 3 Units \***
- **CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM 3 Units \***
- **CTVR 129 DOCUMENTARY PRODUCTION 3 Units \***
- **CTVR 140 TELEVISION AND FILM SCRIPTWRITING II 3 Units \***
- **CTVR 151 NON-LINEAR EDITING I 3 Units**
- **CTVR 191 VOICE-OVER AND ANNOUNCING 3 Units**
- **CTVR 251 NON-LINEAR EDITING II 3 Units \***
- **CTVR 253 DIGITAL SPECIAL EFFECTS 3 Units \***
- **CTVR 262 PRODUCTION MANAGEMENT 3 Units**
- **CTVR 264 CINEMATOGRAPHY 2 Units \***
- **CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3 Units \***
- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1 Unit**
- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 2 Units**

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

### Radio Specialty

#### Required Courses

- **CTVR 110 AUDIO PRODUCTION 3 Units**
- **CTVR 113 RADIO BROADCASTING 3 Units \***

#### Restricted Electives: (9 units)

- **CTVR 31 FILM PRODUCTION I 3 Units \***
- **CTVR 32 FILM PRODUCTION II 3 Units \***
- **CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM 3 Units \***
- **CTVR 114 RADIO STATION ACTIVITIES 2 Units \***
- **CTVR 115 ADVANCED RADIO PERFORMANCE AND STUDIO OPERATIONS 2 Units \***
- **CTVR 124 TELEVISION PRODUCTION I 3 Units \***
- **CTVR 125 TELEVISION PRODUCTION II 3 Units \***
- **CTVR 140 TELEVISION AND FILM SCRIPTWRITING II 3 Units \***
- **CTVR 191 VOICE-OVER AND ANNOUNCING 3 Units**
- **CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3 Units \***
- **CTVR 290 ACTING FOR THE CAMERA I 3 Units**
- **CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER 3 Units**
- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1 Unit**

- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 2 Units**

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

### Post Production Specialty

#### Required Courses

- **CTVR 151 NON-LINEAR EDITING I 3 Units**
- **CTVR 251 NON-LINEAR EDITING II 3 Units \***

#### Restricted Electives: (9 units)

- **CTVR 31 FILM PRODUCTION I 3 Units \***
- **CTVR 32 FILM PRODUCTION II 3 Units \***
- **CTVR 42 TELEVISION AND FILM DIRECTING 3 Units \***
- **CTVR 110 AUDIO PRODUCTION 3 Units**
- **CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM 3 Units \***
- **CTVR 124 TELEVISION PRODUCTION I 3 Units \***
- **CTVR 125 TELEVISION PRODUCTION II 3 Units \***
- **CTVR 129 DOCUMENTARY PRODUCTION 3 Units \***
- **CTVR 253 DIGITAL SPECIAL EFFECTS 3 Units \***
- **CTVR 262 PRODUCTION MANAGEMENT 3 Units**
- **CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3 Units \***
- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1 Unit**
- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 2 Units**

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

### Screen Acting and Voice Performance Specialty

#### Required Courses

- **CTVR 290 ACTING FOR THE CAMERA I 3 Units**
- **CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER 3 Units**

#### Restricted Electives: (9 units)

- **CTVR 31 FILM PRODUCTION I 3 Units \***
- **CTVR 32 FILM PRODUCTION II 3 Units \***
- **CTVR 42 TELEVISION AND FILM DIRECTING 3 Units \***
- **CTVR 104 COLD READING AND INTERVIEW TECHNIQUES 3 Units**
- **CTVR 110 AUDIO PRODUCTION 3 Units**
- **CTVR 124 TELEVISION PRODUCTION I 3 Units \***
- **CTVR 125 TELEVISION PRODUCTION II 3 Units \***
- **CTVR 129 DOCUMENTARY PRODUCTION 3 Units \***
- **CTVR 140 TELEVISION AND FILM SCRIPTWRITING II 3 Units \***
- **CTVR 191 VOICE-OVER AND ANNOUNCING 3 Units**
- **CTVR 262 PRODUCTION MANAGEMENT 3 Units**
- **CTVR 264 CINEMATOGRAPHY 2 Units \***
- **CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS 3 Units \***
- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 1 Unit**
- **CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO 2 Units**

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

## Critical Studies Specialty

### Required Courses

- CTVR 2 HISTORY AND APPRECIATION OF TELEVISION BROADCASTING **3 Units**
- CTVR 3 THE HISTORY AND APPRECIATION OF AMERICAN CINEMA **3 Units**

### Restricted Electives: (9 units)

- CTVR 4 AESTHETICS OF CINEMA **3 Units**
  - CTVR 5 HISTORY AND APPRECIATION OF INTERNATIONAL CINEMA **3 Units**
  - CTVR 7 CROSS CULTURAL CINEMA **3 Units**
  - CTVR 9 WOMEN IN CINEMA AND TELEVISION **3 Units**
  - CTVR 140 TELEVISION AND FILM SCRIPTWRITING II **3 Units \***
  - CTVR 280 CINEMA-TELEVISION-RADIO EMPLOYMENT SKILLS **3 Units \***
  - CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**
  - CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **2 Units**
  - ENG 52 THE FILM AS LITERATURE **3 Units \***
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

## Cinema-Television-Radio Certificate of Achievement

This program is designed for seasoned professionals who wish to hone their skills and/or cross-over to another area of media production. It provides opportunities to gain the fundamental proficiencies and understanding to work in the media industry through six specialty options: Cinema, Television, Radio, Post Production, Screen Acting or Critical Studies. The courses focus on specialized technical skills that mirror real-world tasks as well as specific media analysis. Additionally, they build the technical, aesthetic, and project management skills needed for employment and advancement in a career in this field. Students who complete this certificate can work in a variety of jobs including camera operator, video journalist, TV show researcher, film editor, voice-over talent and/or film/TV show talent.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Accurately use the language and vocabulary of video production.
- Apply skills and knowledge required for employment in their selected specialty.
- Produce a demo reel showcasing media industry skills.

### Required Courses

- CTVR 101 VIDEO PRODUCTION BASICS **3 Units**
- Completion of one specialty area **9-10 Units**

### Total Units for the Certificate: 12-13

### Cinema Specialty

#### Required Course

- CTVR 31 FILM PRODUCTION I **3 Units \***

#### Restricted Electives: (6-7 units)

- CTVR 32 FILM PRODUCTION II **3 Units \***
- CTVR 40 TELEVISION AND FILM SCRIPTWRITING I **3 Units**

- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units \***
- CTVR 151 NON-LINEAR EDITING I **3 Units**
- CTVR 233 FILM PRODUCTION III **3 Units \***
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**

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

### Television Specialty

#### Required Course

- CTVR 124 TELEVISION PRODUCTION I **3 Units \***

#### Restricted Electives: (6-7 units)

- CTVR 40 TELEVISION AND FILM SCRIPTWRITING I **3 Units**
- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units \***
- CTVR 125 TELEVISION PRODUCTION II **3 Units \***
- CTVR 129 DOCUMENTARY PRODUCTION **3 Units \***
- CTVR 151 NON-LINEAR EDITING I **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**

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

### Radio Specialty

#### Required Course

- CTVR 110 AUDIO PRODUCTION **3 Units**

#### Restricted Electives: (6-7 units)

- CTVR 40 TELEVISION AND FILM SCRIPTWRITING I **3 Units**
- CTVR 113 RADIO BROADCASTING **3 Units \***
- CTVR 114 RADIO STATION ACTIVITIES **2 Units \***
- CTVR 115 ADVANCED RADIO PERFORMANCE AND STUDIO OPERATIONS **2 Units \***
- CTVR 191 VOICE-OVER AND ANNOUNCING **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**

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

### Post Production Specialty

#### Required Course

- CTVR 151 NON-LINEAR EDITING I **3 Units**

#### Restricted Electives: (6-7 units)

- CTVR 40 TELEVISION AND FILM SCRIPTWRITING I **3 Units**
- CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM **3 Units \***
- CTVR 251 NON-LINEAR EDITING II **3 Units \***
- CTVR 253 DIGITAL SPECIAL EFFECTS **3 Units \***
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**

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

### Screen Acting and Voice Performance Specialty

#### Required Course

- CTVR 290 ACTING FOR THE CAMERA I **3 Units**

**Restricted Electives: (6-7 units)**

- CTVR 40 TELEVISION AND FILM SCRIPTWRITING I **3 Units**
- CTVR 42 TELEVISION AND FILM DIRECTING **3 Units** \*
- CTVR 104 COLD READING AND INTERVIEW TECHNIQUES **3 Units**
- CTVR 191 VOICE-OVER AND ANNOUNCING **3 Units**
- CTVR 291 ACTING FOR THE CAMERA II - CREATING A CHARACTER **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**

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

**Critical Studies Specialty****Required Course**

- CTVR 3 THE HISTORY AND APPRECIATION OF AMERICAN CINEMA **3 Units**

**Restricted Electives: (6-7 units)**

- CTVR 2 HISTORY AND APPRECIATION OF TELEVISION BROADCASTING **3 Units**
- CTVR 4 AESTHETICS OF CINEMA **3 Units**
- CTVR 5 HISTORY AND APPRECIATION OF INTERNATIONAL CINEMA **3 Units**
- CTVR 7 CROSS CULTURAL CINEMA **3 Units**
- CTVR 9 WOMEN IN CINEMA AND TELEVISION **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE-CINEMA, TV, RADIO **1 Unit**

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

## Communication Studies Associate in Arts 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.

**Required Courses**

- SP 1 COMMUNICATION FUNDAMENTALS **3 Units**
- SP 3 ARGUMENTATION AND DEBATE **3 Units** \*
- SP 5 INTERPERSONAL COMMUNICATION **3 Units**

**Select two of the following courses (6 Units):**

- CTVR 1 MASS MEDIA AND SOCIETY **3 Units**  
*or*
- JRN 1 MASS MEDIA AND SOCIETY **3 Units**
- CTVR 124 TELEVISION PRODUCTION I **3 Units** \*

- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*
- SP 20 INTERCULTURAL COMMUNICATION **3 Units**
- SP 106 FORENSICS ACTIVITY **3 Units**
- SP 30 INTRODUCTION TO ORAL INTERPRETATION **3 Units**  
*or*
- TA 30 INTRODUCTION TO ORAL INTERPRETATION **3 Units**

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

- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**
- ENG 1B PRINCIPLES OF COMPOSITION II **3 Units** \*
- JRN 2 NEWS WRITING **3 Units**
- PSYC 1 INTRODUCTION TO PSYCHOLOGY **3 Units**
- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**

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

**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 Associate of Science

This program is designed to prepare the student for entry-level employment as an Applications Developer. These workers develop and maintain software programs to meet specific business needs. The program encompasses a broad area of study, including programming, computer operating systems, software applications, web design and networking.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Identify and perform all stages of the Systems Development Lifecycle
- Apply systems development life cycle model to develop software applications
- Successfully code, compile, execute, and debug programs in various programming languages

**Required Courses**

- CIMP 5 BUSINESS PROGRAMMING I - VISUAL BASIC **3.5 Units**
- CIMP 7A BUSINESS PROGRAMMING - JAVA-BEGINNING **3 Units**
- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMW 250 MICROSOFT ASP.NET-BEGINNING **3.5 Units** \*
- Select from Restricted Electives **5-7 Units**

**Total Units for the Major: 18-20****Restricted Electives**

- CIMP 7B BUSINESS PROGRAMMING - JAVA-ADVANCED **3 Units** \*
- CIMN 200 INTRODUCTION TO NETWORKING **3 Units**
- CIMP 8A PROGRAMMING WITH PYTHON **3 Units**



- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMW 145 WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE **3 Units**
- CIMN 250 NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX **3 Units \***
- CIMW 160 WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX **3 Units**
- CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING **1.5 Units \***
- CIMW 100B WEB SITE DEVELOPMENT - HTML-ADVANCED **1.5 Units \***
- CIMP 115 BUSINESS PROGRAMMING-C# **3.5 Units**
- CIMA 288 DATABASE REPORTING **3.5 Units**

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

### Associate in Science 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 of Science 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.

## E-Commerce Specialist Associate of Science

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.

### Required Courses

- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS **3 Units**
- CIMW 140 CSS (CASCADING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**
- CIMW 160 WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX **3 Units**
- CIMW 280 WEB DESIGN - CAPSTONE PORTFOLIO PROJECT **1.5 Units ‡**
- Select from Restricted Electives **3 Units**

**Total Units for the Major: 16.5**

### Restricted Electives

- CIMP 7A BUSINESS PROGRAMMING - JAVA-BEGINNING **3 Units**
- CIMP 7B BUSINESS PROGRAMMING - JAVA-ADVANCED **3 Units \***
- BUS 135 MARKETING **3 Units**
- CIMW 145 WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE **3 Units**
- CIMS 200 INFORMATION SECURITY FUNDAMENTALS **3 Units \***
- CIMA 106 DATABASE - ACCESS **3 Units**

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

‡Final course to be taken

### Associate of Science 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 of Science 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.

## Network Administrator Associate of Science

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:

- Design a basic high speed computer network to fulfill a customer's requirements.
- Demonstrate ability to physically assemble and cable a basic high speed computer network.
- Program and configure network components for basic network connectivity.
- Demonstrate key skills for employment in the area of Network Administrator.

### Required Courses

- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**  
or
- CIM 112 MICROSOFT OFFICE **3 Units**
- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMN 100 COMPUTER OPERATING SYSTEMS- WINDOWS **3 Units +**
- CIMN 200 INTRODUCTION TO NETWORKING **3 Units**
- CIMN 210 NETWORKING ESSENTIALS AND TECHNOLOGIES **3.5 Units**
- Select from Restricted Electives **6 Units**

**Total Units for the Major: 21.5-22.5**



### Restricted Electives

- CIMP 7A BUSINESS PROGRAMMING - JAVA-BEGINNING **3 Units**
- CIMP 7B BUSINESS PROGRAMMING - JAVA-ADVANCED **3 Units \***
- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMA 106 DATABASE - ACCESS **3 Units**
- CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS **1.5 Units**
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units**
- CIMN 240 FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION **3 Units \***
- CIMN 250 NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX **3 Units \***
- CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING **1.5 Units \***
- or
- CIMW 100B WEB SITE DEVELOPMENT - HTML-ADVANCED **1.5 Units \***
- CIMS 200 INFORMATION SECURITY FUNDAMENTALS **3 Units \***
- CIMS 230 SECURITY+ **3 Units**
- CIMN 220A MCSE CERTIFICATION EXAM PREP I **3 Units**
- CIMN 220B MCSE CERTIFICATION EXAM PREP II **3 Units**
- CIMN 220C MCSE CERTIFICATION EXAM PREP III **3 Units**
- CIMS 250 CYBERLAW **3 Units**
- CIMN 260 CISCO CCNA **3 Units**

\* 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

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 of Science 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.

## Software Specialist Associate of Science

This program prepares the student for an entry-level position as an information systems Software Specialist.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment using industry-standard software.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments.

### Required Courses

- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**  
or
- CIM 112 MICROSOFT OFFICE **3 Units**
- CIMA 102 WORD PROCESSING - WORD **3 Units +**
- CIMA 104 SPREADSHEETS - EXCEL **3 Units +**
- CIMA 106 DATABASE - ACCESS **3 Units**
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units**
- Select from Restricted Electives **3 Units**

### Total Units for the Major: 18-19

### Restricted Electives

- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**
- CIM 121A KEYBOARDING FOR COMPUTERS - BEGINNING **1.5 Units**
- CIM 121B KEYBOARDING FOR COMPUTERS - INTERMEDIATE **1.5 Units \***
- CIM 121C KEYBOARDING FOR COMPUTERS - ADVANCED **1.5 Units \***
- CIMW 134 WEB DIGITAL MEDIA- PHOTOSHOP AND INTRO TO VIDEO EDITING **3 Units**
- CIMA 202 ADVANCED WORD PROCESSING - WORD **3 Units**
- CIMA 204 ADVANCED SPREADSHEETS - EXCEL **3 Units**
- CIMA 206 ADVANCED DATABASE - ACCESS **3 Units**
- CIMA 212 MANAGING PROJECTS WITH MICROSOFT PROJECT **3 Units**
- CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS-BEGINNING **1.5 Units \***
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units \***
- CIMN 100 COMPUTER OPERATING SYSTEMS- WINDOWS **3 Units +**
- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS **1.5 Units**

\*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

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 of Science 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.

## Web Designer Associate of Science

This degree 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. The Web Designer degree provides the student with skills to gain employment as an entry level Web Designer and prepares them for transfer to a 4-year program to earn a bachelor's degree.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate key skills for employment as a Web Designer.
- 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 internships and capstone projects.

### Required Courses

- CIMW 134 WEB DIGITAL MEDIA- PHOTOSHOP AND INTRO TO VIDEO EDITING **3 Units**
- CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING **1.5 Units** \*
- CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS **3 Units**
- CIMW 140 CSS (CASCADING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**
- CIMW 280 WEB DESIGN - CAPSTONE PORTFOLIO PROJECT **1.5 Units** ‡
- Select from Restricted Electives **5-6.5 Units**

**Total Units for the Major: 17-18.5**

### Restricted Electives

- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMW 100B WEB SITE DEVELOPMENT - HTML-ADVANCED **1.5 Units**
- CIMW 145 WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE **3 Units**
- CIMW 250 MICROSOFT ASP.NET-BEGINNING **3.5 Units**
- CIMW 160 WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX **3 Units**

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

‡Final course to be taken

### Associate of Science 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 of Science 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.

## Webmaster Associate of Science

The Webmaster 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 webmaster.
- Demonstrate comprehensive, broad range 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.

### Required Courses

- CIMP 7A BUSINESS PROGRAMMING - JAVA-BEGINNING **3 Units**
- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMN 200 INTRODUCTION TO NETWORKING **3 Units**
- CIMN 210 NETWORKING ESSENTIALS AND TECHNOLOGIES **3.5 Units**
- CIMW 250 MICROSOFT ASP.NET-BEGINNING **3.5 Units**
- CIMW 280 WEB DESIGN - CAPSTONE PORTFOLIO PROJECT **1.5 Units** ‡
- Select from Restricted Electives **3-4.5 Units**

**Total Units for the Major: 20.5-22**

### Restricted Electives

- CIMW 140 CSS (CASCADING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**
- CIMP 7B BUSINESS PROGRAMMING - JAVA-ADVANCED **3 Units** \*
- CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING **1.5 Units** \*
- CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS **3 Units**
- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMN 240 FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION **3 Units** \*
- CIMN 250 NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX **3 Units** \*
- CIMS 200 INFORMATION SECURITY FUNDAMENTALS **3 Units** \*

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

‡Final course to be taken

## Associate of Science 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 of Science 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.

## Applications Developer Certificate of Achievement

This program is designed to prepare the student for entry-level employment as an Applications Developer. These workers develop and maintain software programs to meet specific business needs. The program encompasses a broad area of study, including programming, computer operating systems, software applications, web design and networking.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify and perform all stages of the Systems Development Lifecycle
- Apply systems development life cycle model to develop software applications
- Successfully code, compile, execute, and debug programs in various programming languages

### Required Courses

- CIMP 5 BUSINESS PROGRAMMING I - VISUAL BASIC **3.5 Units**
- CIMP 7A BUSINESS PROGRAMMING - JAVA-BEGINNING **3 Units**
- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMW 250A - MICROSOFT ASP.NET - BEGINNING **3.5 Units**
- Select from Restricted Electives **5-7 Units**

**Total Units for the Certificate: 18-20**

### Restricted Electives

- CIMP 7B BUSINESS PROGRAMMING - JAVA-ADVANCED **3 Units \***
- CIMN 200 INTRODUCTION TO NETWORKING **3 Units**
- CIMP 8A PROGRAMMING WITH PYTHON **3 Units**
- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMW 145 WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE **3 Units**
- CIMN 250 NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX **3 Units \***
- CIMW 160 WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX **3 Units**
- CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING **1.5 Units \***
- CIMW 100B WEB SITE DEVELOPMENT - HTML-ADVANCED **1.5 Units \***
- CIMP 115 BUSINESS PROGRAMMING-C# **3.5 Units**
- CIMA 288 DATABASE REPORTING **3.5 Units**

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

## Business Information Worker I Certificate of Achievement

The Business Information Worker (BIW) Certificate of Achievement is designed to prepare students for entry-level office and administrative support in a variety of job positions, including general office clerks, retail salespersons, customer service representatives, receptionists, and information clerks.

This program will provide a foundation in Microsoft Windows and Microsoft Office and skills to prepare students to meet the workforce demands of today's business environment.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Use basic oral and written communications
- Use basic computer application skills, including beginning Excel, Word, and Outlook
- Demonstrate the fundamentals of computer systems
- Use critical thinking and problem solving skills

### Core Courses

- CIMA 283B OFFICE SKILLS-KEYBOARDING **0.5 Unit**
  - CIMA 283D OFFICE SKILLS-WINDOWS **0.5 Unit**
  - CIMA 283E OFFICE SKILLS-WORD PROCESSING (WORD) **0.5 Unit**
  - CIMA 283F OFFICE SKILLS-SPREADSHEETS (EXCEL) **0.5 Unit**
  - CIMA 283K OFFICE SKILLS-BUSINESS EMAIL (OUTLOOK) **0.5 Unit**
  - CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**
  - BUS 104 BUSINESS COMMUNICATION **3 Units \***
  - BUS 125 HUMAN RELATIONS IN BUSINESS **3 Units**
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Certificate: 12.5**

## Business Information Worker II Certificate of Achievement

The Business Information Worker (BIW) Certificate of Achievement is designed to prepare students for office and administrative support positions in a variety of fields or businesses.

Students will initially complete the Business Information Worker I certificate program which will provide a foundation in Microsoft Windows and Microsoft Office. Twelve additional units in the Business Information Worker II program will be completed to acquire skills in PowerPoint and Quickbooks to prepare students to meet the workforce demands of today's business environment.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Use computer skills, including PowerPoint, Quickbooks, and Access
- Use basic oral and written communications
- Use critical thinking and problem solving skills

### Core Courses

- Completion of Business Information Worker I Certificate of Achievement Certificate of Achievement **12.5 Units**
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units \***

- CIMA 104B SPREADSHEETS - EXCEL-INTERMEDIATE **1.5 Units \***
- CIMA 106 DATABASE - ACCESS **3 Units**
- CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS-BEGINNING **1.5 Units \***
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units \***
- BUS 120 BUSINESS MANAGEMENT **3 Units**

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

**Total Units for the Certificate: 26**

## **E-Commerce Specialist Certificate of Achievement**

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.

### **Required Courses**

- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS **3 Units**
- CIMW 140 CSS (CASCADING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**
- CIMW 160 WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX **3 Units**
- CIMW 280 WEB DESIGN - CAPSTONE PORTFOLIO PROJECT **1.5 Units ‡**
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 16.5**

### **Restricted Electives**

- CIMP 7A BUSINESS PROGRAMMING - JAVA-BEGINNING **3 Units**
- CIMP 7B BUSINESS PROGRAMMING - JAVA-ADVANCED **3 Units \***
- BUS 135 MARKETING **3 Units**
- CIMW 145 WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE **3 Units**
- CIMS 200 INFORMATION SECURITY FUNDAMENTALS **3 Units \***
- CIMA 106 DATABASE - ACCESS **3 Units**

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

‡Final course to be taken

## **Network Administrator Certificate of Achievement**

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:

- Design a basic high speed computer network to fulfill a customer's requirements.
- Demonstrate ability to physically assemble and cable a basic high speed computer network.
- Program and configure network components for basic network connectivity.
- Demonstrate key skills for employment in the area of Network Administrator.

### **Required Courses**

- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**  
*or*
- CIM 112 MICROSOFT OFFICE **3 Units**
- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMN 100 COMPUTER OPERATING SYSTEMS- WINDOWS **3 Units +**
- CIMN 200 INTRODUCTION TO NETWORKING **3 Units**
- CIMN 210 NETWORKING ESSENTIALS AND TECHNOLOGIES **3.5 Units**
- Select from Restricted Electives **6 Units**

**Total Units for the Certificate: 21.5-22.5**

### **Restricted Electives**

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

\*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 Certificate of Achievement

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 using industry-standard software.
- Apply skills in a broad range of media appropriate for a diverse population of technical students.
- Use job skills in technical professional business environments.

### Required Courses

- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**  
*or*
- CIM 112 MICROSOFT OFFICE **3 Units**
- CIMA 102 WORD PROCESSING - WORD **3 Units** +
- CIMA 104 SPREADSHEETS - EXCEL **3 Units** +
- CIMA 106 DATABASE - ACCESS **3 Units**
- CIMA 108 BUSINESS PRESENTATIONS - POWERPOINT **3 Units**
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 18-19**

### Restricted Electives

- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**
- CIM 121A KEYBOARDING FOR COMPUTERS - BEGINNING **1.5 Units**
- CIM 121B KEYBOARDING FOR COMPUTERS - INTERMEDIATE **1.5 Units** \*
- CIM 121C KEYBOARDING FOR COMPUTERS - ADVANCED **1.5 Units** \*
- CIMW 134 WEB DIGITAL MEDIA- PHOTOSHOP AND INTRO TO VIDEO EDITING **3 Units**
- CIMA 202 ADVANCED WORD PROCESSING - WORD **3 Units**
- CIMA 204 ADVANCED SPREADSHEETS - EXCEL **3 Units**
- CIMA 206 ADVANCED DATABASE - ACCESS **3 Units**
- CIMA 212 MANAGING PROJECTS WITH MICROSOFT PROJECT **3 Units**
- CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS-BEGINNING **1.5 Units** \*
- CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS-ADVANCED **1.5 Units** \*
- CIMN 100 COMPUTER OPERATING SYSTEMS- WINDOWS **3 Units** +
- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS **1.5 Units**

\*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.

## Web Designer Certificate of Achievement

This certificate 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 as a Web Designer.
- 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 internships and capstone projects.

### Required Courses

- CIMW 134 WEB DIGITAL MEDIA- PHOTOSHOP AND INTRO TO VIDEO EDITING **3 Units**
- CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING **1.5 Units** \*
- CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS **3 Units**
- CIMW 140 CSS (CASCADING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**
- CIMW 280 WEB DESIGN - CAPSTONE PORTFOLIO PROJECT **1.5 Units** ‡
- Select from Restricted Electives **5-6.5 Units**

**Total Units for the Certificate: 17-18.5**

### Restricted Electives

- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMW 100B WEB SITE DEVELOPMENT - HTML-ADVANCED **1.5 Units** \*
- CIMW 145 WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE **3 Units**
- CIMW 250 MICROSOFT ASP.NET-BEGINNING **3.5 Units**
- CIMW 160 WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX **3 Units**

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

‡Final course to be taken



## **Webmaster Certificate of Achievement**

The Webmaster 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 webmaster.
- Demonstrate comprehensive, broad range 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.

### **Required Courses**

- CIMP 7A BUSINESS PROGRAMMING - JAVA-BEGINNING **3 Units**
- CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX **3 Units**
- CIMN 200 INTRODUCTION TO NETWORKING **3 Units**
- CIMN 210 NETWORKING ESSENTIALS AND TECHNOLOGIES **3.5 Units**
- CIMW 250 MICROSOFT ASP.NET-BEGINNING **3.5 Units**
- CIMW 280 WEB DESIGN - CAPSTONE PORTFOLIO PROJECT **1.5 Units** ‡
- Select from Restricted Electives **3-4.5 Units**

**Total Units for the Certificate: 20.5-22**

### **Restricted Electives**

- CIMP 7B BUSINESS PROGRAMMING - JAVA-ADVANCED **3 Units** \*
- CIMN 240 FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION **3 Units** \*
- CIMN 250 NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX **3 Units** \*
- CIMS 200 INFORMATION SECURITY FUNDAMENTALS **3 Units** \*
- CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING **1.5 Units** \*
- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS **3 Units**
- CIMW 140 CSS (CASCAIDING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN) **3 Units**

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

‡Final course to be taken

## **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.

### **Required Courses**

- CIMS 200 INFORMATION SECURITY FUNDAMENTALS **3 Units** \*
- CIMS 210 - NETWORK DEFENSE AND COUNTERMEASURES **3 Units**
- CIMS 220 - INFORMATION SECURITY MANAGEMENT **3 Units**
- CIMS 230 SECURITY+ **3 Units**
- CIMS 250 CYBERLAW **3 Units**

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

**Total Units for the Award: 15**

## **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.

### **Required Courses**

- CIMA 283A OFFICE SKILLS-OFFICE PROCEDURES **2.5 Units**
- CIMA 283B OFFICE SKILLS-KEYBOARDING **0.5 Unit**
- CIMA 283D OFFICE SKILLS-WINDOWS **0.5 Unit**
- CIMA 283E OFFICE SKILLS-WORD PROCESSING (WORD) **0.5 Unit**
- CIMA 283F OFFICE SKILLS-SPREADSHEETS (EXCEL) **0.5 Unit**
- CIMA 283G OFFICE SKILLS-DESKTOP PRESENTATION FOR BUS (POWERPOINT) **0.5 Unit**
- CIMA 283H OFFICE SKILLS-DATABASE (ACCESS) **0.5 Unit**
- CIMA 283J OFFICE SKILLS-DESKTOP PUBLISHING (PUBLISHER) **0.5 Unit**
- or
- CIMA 283K OFFICE SKILLS-BUSINESS EMAIL (OUTLOOK) **0.5 Unit**

**Total Units for the Award: 6**

## Computer Maintenance Technology Associate in Science

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.

### Required Courses

- CIM 1 - INTRODUCTION TO COMPUTER INFORMATION SYSTEMS **3 Units**  
or
  - CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**
  - CIM 174 - Computer Operating Systems: Windows **3 Units +**
  - CMT 215 ELECTRONICS FOR COMPUTER TECHNOLOGISTS **3 Units**  
or
  - ET 101 SURVEY OF ELECTRONICS **3 Units**  
or
  - ET 133 DC AND AC FUNDAMENTALS **4 Units**
  - CMT 220 COMPUTER MAINTENANCE AND REPAIR I **3 Units**
  - CMT 225 COMPUTER MAINTENANCE AND REPAIR II **3 Units \***
  - CMT 230 APPLIED NETWORK TECHNOLOGY **3 Units \***
  - CMT 235 A+ EXAM PREPARATION FOR COMPUTER SERVICE TECHNICIANS **3 Units \***
- \*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.

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

#### Associate in Science Degree

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

#### 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

## Computer Maintenance Technology Certificate of Achievement

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.

### Required Courses

- CIM 1 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS **3 Units**  
or
  - CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**
  - CIM 174 Computer Operating Systems: Windows **3 Units +**
  - CMT 215 ELECTRONICS FOR COMPUTER TECHNOLOGISTS **3 Units**  
or
  - ET 101 SURVEY OF ELECTRONICS **3 Units**  
or
  - ET 133 DC AND AC FUNDAMENTALS **4 Units**
  - CMT 220 COMPUTER MAINTENANCE AND REPAIR I **3 Units**
  - CMT 225 COMPUTER MAINTENANCE AND REPAIR II **3 Units \***
  - CMT 230 APPLIED NETWORK TECHNOLOGY **3 Units \***
  - CMT 235 A+ EXAM PREPARATION FOR COMPUTER SERVICE TECHNICIANS **3 Units \***
- \*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.

### Total Units for the Certificate: 21-22

## Computer Science Associate of Science

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.

### Core/Required Courses

- CS 1A INTRODUCTION TO COMPUTER SCIENCE I **3.5 Units**
- CS 1B INTRODUCTION TO COMPUTER SCIENCE II **3.5 Units \***
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units \***  
or
- MATH 3AH HONORS ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- CS 1C INTRODUCTION TO COMPUTER SCIENCE III **3.5 Units \***
- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- CS 3A COMPUTER ORGANIZATION AND MACHINE LANGUAGE **3.5 Units \***
- CS 1D DATA STRUCTURES **3.5 Units \***
- CS 3B COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE **3.5 Units \***
- Select from Restricted Electives **3.5-4 Units**

**Total Units for the Major: 34.5-35**

### Restricted Electives

- CS 4A INTRODUCTION TO JAVA FOR COMPUTER SCIENCE **3.5 Units \***
- CS 4B ADVANCED TOPICS IN JAVA FOR COMPUTER SCIENCE **3.5 Units \***
- ET 114 DIGITAL ELECTRONIC CIRCUITS **4 Units \***

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

### Associate of 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 of Science 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.

## Cosmetology Certificate of Achievement

The following program is designed to prepare students for the State Board of Cosmetology examination. Upon successful completion of the program and becoming licensed as a cosmetologist by passing the Board examination, students may be employed as hair dressers, hair coloring specialists, hair stylists, make-up artists, manicurists, nail technicians, wig stylists, receptionists, and cosmetic buyers. With continuing education and experience licensed cosmetologists may find employment as salon managers or owners, facial specialists, manufacturers' field representatives, demonstrators and lecturers, and laboratory technicians.

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.

Students must be a minimum of 16 years of age to enroll in the cosmetology coursework. In accordance with the California State Board of Barbering and Cosmetology Business and Professions Code the minimum qualifications for an applicant to sit for the licensure examination are that the applicant: (a) is not less than 17 years of age and (b) has completed the 10th grade in the public schools of this state or its equivalent.

This program has a minimum requirement of 1600 class/clock hours.

- 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 client's overall image.
- Apply learned theory, technical information and related matter to assure sound judgments, decisions and procedures.

### Required Courses

- COS 211 COSMETOLOGY FRESHMAN-LEVEL 1 **12 Units \***  
(400 hours)  
or
  - COS 211A COSMETOLOGY FRESHMAN-LEVEL 1A **6 Units \***  
(200 hours)
  - COS 211B COSMETOLOGY FRESHMAN-LEVEL 1B **6 Units \***  
(200 hours)
  - COS 212 COSMETOLOGY INTERMEDIATE-LEVEL 2 **12 Units \***  
(400 hours)  
or
  - COS 212A COSMETOLOGY INTERMEDIATE-LEVEL 2A **6 Units \***  
(200 hours)
  - COS 212B COSMETOLOGY INTERMEDIATE-LEVEL 2B **6 Units \***  
(200 hours)
  - COS 213 COSMETOLOGY ADVANCED-LEVEL 3 **12 Units \***  
(400 hours)  
or
  - COS 213A COSMETOLOGY ADVANCED-LEVEL 3A **6 Units \***  
(200 hours)
  - COS 213B COSMETOLOGY ADVANCED-LEVEL 3B **6 Units \***  
(200 hours)
  - COS 214 COSMETOLOGY SENIOR-LEVEL 4 **12 Units \***  
(400 hours)  
or
  - COS 214A COSMETOLOGY SENIOR-LEVEL 4A **6 Units \***  
(200 hours)
  - COS 214B COSMETOLOGY SENIOR-LEVEL 4B **6 Units \***  
(200 hours)
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

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

## 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.

### Required Course

- COS 440 - COSMETICIAN **16 Units**

**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 Associate in Science

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.

#### Required Courses

- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †  
*and*
- FN 261 INTERNSHIP **1 Unit** †
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
- FN 120 CONTEMPORARY MEALS **3 Units** \*
- FN 142 CLASSICAL FRENCH CUISINE **2 Units** \*
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 173 CATERING AND BANQUETS **3 Units** \*
- FN 240 CULINARY PRINCIPLES I **3 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 244 BAKING FUNDAMENTALS I **3 Units** \*
- FN 245 BAKING FUNDAMENTALS II **2 Units**
- FN 246 PANTRY **3 Units** \*
- FN 275 FOOD AND BEVERAGE OPERATIONS **3 Units**
- Select from Restricted Electives **6 Units**

**Total Units for the Major: 41-42**

#### Restricted Electives

- FN 140 CULTURAL CUISINE **2 Units** \*
- FN 220 FRENCH BISTRO CUISINE **2 Units** \*
- FN 222 CHINESE CUISINE **2 Units** \*
- FN 223 ASIAN CUISINE **2 Units** \*
- FN 226 MEXICAN CUISINE **2 Units** \*
- FN 227 MEDITERRANEAN CUISINE **2 Units** \*
- FN 228 ITALIAN CUISINE **2 Units** \*

- FN 230 VEGETARIAN CUISINE **2 Units** \*
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units** \*
- FN 236 AMERICAN REGIONAL CUISINE **2 Units** \*

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

†Recommended to be taken in last semester of 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 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.

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

### Basic Culinary Arts Associate in Science

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.

#### Required Courses

- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †  
*and*
- FN 261 INTERNSHIP **1 Unit** †
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
- FN 120 CONTEMPORARY MEALS **3 Units** \*
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 240 CULINARY PRINCIPLES I **3 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 244 BAKING FUNDAMENTALS I **3 Units** \*
- FN 246 PANTRY **3 Units** \*
- Select from Restricted Electives **4-6 Units**

**Total Units for the Major: 29-32**



### Restricted Electives

- FN 220 FRENCH BISTRO CUISINE **2 Units** \*
- FN 222 CHINESE CUISINE **2 Units** \*
- FN 226 MEXICAN CUISINE **2 Units** \*
- FN 227 MEDITERRANEAN CUISINE **2 Units** \*
- FN 230 VEGETARIAN CUISINE **2 Units** \*
- FN 236 AMERICAN REGIONAL CUISINE **2 Units** \*

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

†Recommended to be taken in last semester of 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 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.

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

## Catering Associate in Science

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.

### Required Courses

- BUS 160 ENTREPRENEURSHIP **3 Units**
- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †  
*and*
- FN 261 INTERNSHIP **1 Unit** †
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
- FN 120 CONTEMPORARY MEALS **3 Units** \*
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 173 CATERING AND BANQUETS **3 Units** \*
- FN 240 CULINARY PRINCIPLES I **3 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 244 BAKING FUNDAMENTALS I **3 Units** \*
- FN 246 PANTRY **3 Units** \*
- FN 275 FOOD AND BEVERAGE OPERATIONS **3 Units**
- Select from Restricted Electives **4 Units**

**Total Units for the Major: 38-39**

### Restricted Electives

- FN 140 CULTURAL CUISINE **2 Units** \*
- FN 220 FRENCH BISTRO CUISINE **2 Units** \*
- FN 222 CHINESE CUISINE **2 Units** \*
- FN 223 ASIAN CUISINE **2 Units** \*
- FN 226 MEXICAN CUISINE **2 Units** \*
- FN 227 MEDITERRANEAN CUISINE **2 Units** \*
- FN 228 ITALIAN CUISINE **2 Units** \*
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units** \*
- FN 236 AMERICAN REGIONAL CUISINE **2 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 245 BAKING FUNDAMENTALS II **2 Units** \*

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

†Recommended to be taken in last semester of 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 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.

Suggested coursework not required for the major: FCS 115, FCS 142; FN 64, FN 160.

## Advanced Culinary Arts Certificate of Achievement

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.

### Required Courses

- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †  
*and*
- FN 261 INTERNSHIP **1 Unit** †
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
- FN 120 CONTEMPORARY MEALS **3 Units** \*
- FN 142 CLASSICAL FRENCH CUISINE **2 Units** \*
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**



- FN 173 CATERING AND BANQUETS **3 Units** \*
- FN 240 CULINARY PRINCIPLES I **3 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 244 BAKING FUNDAMENTALS I **3 Units** \*
- FN 245 BAKING FUNDAMENTALS II **2 Units**
- FN 246 PANTRY **3 Units** \*
- FN 275 FOOD AND BEVERAGE OPERATIONS **3 Units**
- Select from Restricted Electives **6 Units**

### Total Units for the Certificate: 41-42

#### Restricted Electives

- FN 140 CULTURAL CUISINE **2 Units** \*
- FN 220 FRENCH BISTRO CUISINE **2 Units** \*
- FN 222 CHINESE CUISINE **2 Units** \*
- FN 223 ASIAN CUISINE **2 Units** \*
- FN 226 MEXICAN CUISINE **2 Units** \*
- FN 227 MEDITERRANEAN CUISINE **2 Units** \*
- FN 228 ITALIAN CUISINE **2 Units** \*
- FN 230 VEGETARIAN CUISINE **2 Units** \*
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units** \*
- FN 236 AMERICAN REGIONAL CUISINE **2 Units** \*

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

†Recommended to be taken in last semester of program.

## Basic Culinary Arts Certificate of Achievement

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.

#### Required Courses

- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †  
*and*
- FN 261 INTERNSHIP **1 Unit** †
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
- FN 120 CONTEMPORARY MEALS **3 Units** \*
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVS SAFE IN FOOD PRODUCTION **1 Unit**
- FN 240 CULINARY PRINCIPLES I **3 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 244 BAKING FUNDAMENTALS I **3 Units** \*

- FN 246 PANTRY **3 Units** \*
- Select from Restricted Electives **4-6 Units**

### Total Units for the Certificate: 29-32

#### Restricted Electives

- FN 220 FRENCH BISTRO CUISINE **2 Units** \*
- FN 222 CHINESE CUISINE **2 Units** \*
- FN 226 MEXICAN CUISINE **2 Units** \*
- FN 227 MEDITERRANEAN CUISINE **2 Units** \*
- FN 230 VEGETARIAN CUISINE **2 Units** \*
- FN 236 AMERICAN REGIONAL CUISINE **2 Units** \*

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

†Recommended to be taken in last semester of program.

## Catering Certificate of Achievement

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.

#### Required Courses

- BUS 160 ENTREPRENEURSHIP **3 Units**
- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †  
*and*
- FN 261 INTERNSHIP **1 Unit** †
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
- FN 120 CONTEMPORARY MEALS **3 Units** \*
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVS SAFE IN FOOD PRODUCTION **1 Unit**
- FN 173 CATERING AND BANQUETS **3 Units** \*
- FN 240 CULINARY PRINCIPLES I **3 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 244 BAKING FUNDAMENTALS I **3 Units** \*
- FN 246 PANTRY **3 Units** \*
- FN 275 FOOD AND BEVERAGE OPERATIONS **3 Units**
- Select from Restricted Electives **4 Units**

#### Restricted Electives

- FN 140 CULTURAL CUISINE **2 Units** \*
- FN 220 FRENCH BISTRO CUISINE **2 Units** \*
- FN 222 CHINESE CUISINE **2 Units** \*
- FN 223 ASIAN CUISINE **2 Units** \*
- FN 226 MEXICAN CUISINE **2 Units** \*

- FN 227 MEDITERRANEAN CUISINE **2 Units** \*
- FN 228 ITALIAN CUISINE **2 Units** \*
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units** \*
- FN 236 AMERICAN REGIONAL CUISINE **2 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 245 BAKING FUNDAMENTALS II **2 Units** \*

\*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 Certificate: 38-39

## Dance Associate of Arts

The curriculum in the Dance degree is presented in an active learning environment where students are trained in both dance technique and theory classes to prepare them for future careers in the performing arts and related fields. Courses cover major dance technique forms, choreography, dance production, dance history and somatic practices. Upon completion of the Dance A.A. degree, students will be prepared to transfer to a four-year institution to pursue a baccalaureate or higher degree in dance or a related field; colleges to which they might considering transferring include CSU Dominguez Hills, CSU Los Angeles, SFSU, CSU Sonoma, UC Berkeley, UC Davis, UC Riverside and UC San Diego. Some B.A./B.F.A in Dance programs require an audition; students should check the transfer requirements for individual schools. While a baccalaureate degree is recommended, students completing their Dance A.A. will also be eligible to audition and apply for opportunities in the dance field, including as a performer with professional companies or touring productions, a teacher at a dance studio, or a choreographer.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate fundamental positions and qualities with body awareness and alignment in rehearsal and/or performance specific to the technique given in class.
- Perform movement combinations with performance quality, strength, rhythm, balance and flexibility specific to the technique assigned.
- Accurately apply dance terminology, vocabulary, and concepts through writing, performance and/or various forms of expression.
- Identify technical support through the staging of choreographic works in a dance performance.
- Create dances using phrasing, variations, abstraction and other elements of design for a theatrical or informal performance.
- Describe particular dance forms.
- Make connections between dance and the arts and humanities to demonstrate knowledge and an appreciation of factors that influenced and helped to mold various dance forms.

### Required Courses

- DANC 9 CHOREOGRAPHY **3 Units**
- DANC 10 DANCE PRODUCTION **1 Unit**  
or
- DANC 10 DANCE PRODUCTION **2 Units**  
or
- DANC 11 DANCE REHEARSAL AND PERFORMANCE **1 Unit**  
or

- DANC 11 DANCE REHEARSAL AND PERFORMANCE **2 Units**
- DANC 12 INTERMEDIATE DANCE PRODUCTION **1 Unit** \*  
or
- DANC 14 INTERMEDIATE DANCE REHEARSAL AND PERFORMANCE **1 Unit** \*
- DANC 52 BALLET DANCING LEVEL I **1 Unit**  
or
- DANC 52 BALLET DANCING LEVEL I **1.5 Units**
- DANC 53 INTERMEDIATE BALLET **1 Unit** \*  
or
- DANC 53 INTERMEDIATE BALLET **1.5 Units** \*
- DANC 54 INTRODUCTION TO MODERN DANCE **1 Unit**  
or
- DANC 54 INTRODUCTION TO MODERN DANCE **1.5 Units**
- DANC 55 MODERN DANCE LEVEL I **1 Unit** \*  
or
- DANC 55 MODERN DANCE LEVEL I **1.5 Units** \*
- DANC 57 INTRODUCTION TO JAZZ DANCING **1 Unit**  
or
- DANC 57 INTRODUCTION TO JAZZ DANCING **1.5 Units**
- DANC 58 JAZZ DANCING LEVEL I **1 Unit**  
or
- DANC 58 JAZZ DANCING LEVEL I **1.5 Units**
- DANC 64 HISTORY OF DANCE **3 Units**
- MUS 20 MUSIC APPRECIATION **3 Units**
- Select from Restricted Electives **5-6 Units**

### Total Units for the Major: 22-27

#### Restricted Electives

- DANC 8 DANCE PEDAGOGY **3 Units**
- DANC 15 REPERTORY I **1 Unit** \*  
or
- DANC 15 REPERTORY I **2 Units** \*
- DANC 16 REPERTORY II **1 Unit** \*
- DANC 17 SITE SPECIFIC PERFORMANCE **1 Unit**
- DANC 18 DANCE ENSEMBLE PERFORMANCE **2 Units** \*
- DANC 19 CHOREOGRAPHY II **3 Units** \*
- DANC 28 YOGA FOR DANCERS **1.5 Units**
- DANC 59 INTERMEDIATE JAZZ DANCING **1 Unit** \*  
or
- DANC 59 INTERMEDIATE JAZZ DANCING **1.5 Units** \*
- DANC 60 INTRODUCTION TO TAP DANCING **1 Unit**
- DANC 61 TAP DANCING LEVEL I **1 Unit**
- DANC 62 INTERMEDIATE TAP DANCING **1 Unit** \*
- DANC 63 EXERCISE FOR DANCERS **1 Unit**
- DANC 65 INTRODUCTION TO MAT PILATES **1 Unit**  
or
- DANC 65 INTRODUCTION TO MAT PILATES **1.5 Units**  
or
- KNES 65 INTRODUCTION TO MAT PILATES **1 Unit**  
or
- KNES 65 INTRODUCTION TO MAT PILATES **1.5 Units**
- DANC 66 INTRODUCTION TO LATIN DANCE **1 Unit**
- DANC 67 POINTE BALLET **1 Unit** \*  
or

- DANC 67 POINTE BALLET **1.5 Units** \*
- DANC 68 INTRODUCTION TO SOCIAL DANCE **1 Unit**
- DANC 69 INTERMEDIATE SOCIAL DANCE **1 Unit** \*
- DANC 70 INTERMEDIATE LATIN DANCE **1 Unit** \*
- DANC 71 ADVANCED BALLET **1 Unit** \*
- or
- DANC 71 ADVANCED BALLET **1.5 Units** \*
- DANC 72 ADVANCED MODERN DANCE **1 Unit** \*
- or
- DANC 72 ADVANCED MODERN DANCE **1.5 Units** \*
- DANC 73 ADVANCED JAZZ DANCE **1 Unit** \*
- DANC 74 MULTICULTURAL DANCE HISTORY IN THE UNITED STATES **3 Units**
- DANC 75 ADVANCED TAP DANCE **1 Unit** \*
- DANC 78 HIP HOP **1 Unit**
- DANC 79 HIP HOP LEVEL I **1 Unit** \*
- DANC 80 INTERMEDIATE HIP HOP **1 Unit** \*
- DANC 81 ADVANCED HIP HOP **1 Unit** \*
- DANC 182 AFRICAN DANCE I **1 Unit**
- DANC 83 AFRICAN DANCE II **1 Unit**
- ETT 41 LIGHTING DESIGN FUNDAMENTALS **3 Units** \*
- ETT 42 COSTUME DESIGN **3 Units**

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

### Associate of 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 of 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.

## Drafting Technology Associate in Science

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.

### Required Courses

- DR 23 ENGINEERING GRAPHICS **3 Units**
- or
- DR 100 FUNDAMENTALS OF INDUSTRIAL AND MECHANICAL DESIGN **3 Units**

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

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

### Total Units for the Major: 36

### Restricted Electives

- ET 101 SURVEY OF ELECTRONICS **3 Units**
- MFG 200 INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY **3 Units** \*

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

### Associate in Science Degree

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

### 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 124A; CIM 1; CS 1A; GEOL 23/ENV 23; MATH 124, MATH 251, MATH 253, 255; PHYS 20.

## Drafting Technology Certificate of Achievement

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.

### Required Courses

- DR 23 ENGINEERING GRAPHICS **3 Units**  
*or*
- DR 100 FUNDAMENTALS OF INDUSTRIAL AND MECHANICAL DESIGN **3 Units**
- DR 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units \***  
*or*
- ARCH 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING **3 Units \***
- DR 51 COMPUTER-AIDED DRAFTING **3 Units \***  
*or*
- ARCH 51 COMPUTER-AIDED DRAFTING **3 Units \***
- DR 101 MECHANICAL DESIGN **3 Units \***
- DR 102 MECH DESIGN AND MARKETING PORTFOLIO **3 Units**
- DR 120 ENGINEERING TECHNOLOGY **3 Units**
- DR 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units \***  
*or*
- ARCH 152 ADVANCED COMPUTER-AIDED DESIGN **3 Units \***
- DR 200 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units \***
- DR 201 ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS **3 Units \***
- DR 202 GEOMETRIC DIMENSIONING AND TOLERANCING **3 Units \***
- DR 203 GREEN & SUSTAINABLE MANUFACTURING DESIGN **3 Units**
- Select from Restricted Electives **3 Units**  
\*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### Total Units for the Certificate: 36

#### Restricted Electives

- ET 101 SURVEY OF ELECTRONICS **3 Units**
- MFG 200 INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY **3 Units \***

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

## Ecological Restoration Certificate of Achievement

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.

### Required Courses

- ECOL 201 ECOLOGICAL RESTORATION TECHNIQUES **4 Units**
- ECOL 202 ADVANCED ECOLOGICAL RESTORATION TECHNIQUES **4 Units**
- ENV 1 INTRODUCTION TO ENVIRONMENTAL STUDIES **3 Units**
- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**
- Select from Restricted Electives **13 Units**

### Total Units for the Certificate: 28

#### Restricted Electives

- CWE 180 CO-OP-ED ECOLOGICAL RESTORATION **1 Unit**  
*or*
- CWE 180 CO-OP-ED ECOLOGICAL RESTORATION **2 Units**
- ENV 24 NATURAL HISTORY OF CALIFORNIA **4 Units**
- ENV 105 ENVIRONMENTAL STUDIES INTERNSHIP **2 Units \***
- ENV 123 WATER AND SOIL CONSERVATION **3 Units**
- ENV 202 GREEN LIVING **2 Units**
- GEOG 110 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) **2 Units**  
*or*
- GIS 110 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) **2 Units**
- HORT 113 SOILS AND FERTILIZERS **3 Units**
- HORT 116 - IRRIGATION SYSTEMS **3 Units**
- HORT 166 - ORNAMENTAL NATIVE PLANTS **1.5 Units**

\*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 of Arts

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.



## Required Courses

- ECON 2 PRINCIPLES (MACRO) **3 Units** \*
- or*
- ECON 2H HONORS PRINCIPLES OF MACROECONOMICS **3 Units** \*
- ECON 4 PRINCIPLES (MICRO) **3 Units** \*
- or*
- ECON 4H HONORS PRINCIPLES OF MICROECONOMICS **3 Units** \*
- PS 11 INTERNATIONAL POLITICAL ECONOMY **3 Units**
- or*
- ECON 11 INTERNATIONAL POLITICAL ECONOMY **3 Units**
- MATH 11 A BRIEF COURSE IN CALCULUS **5 Units** \*
- or*
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- or*
- MATH 3AH HONORS ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- Select from Restricted Electives **6-9 Units**

## Total Units for the Major: 20-23

### Restricted Electives

- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 1B MANAGERIAL ACCOUNTING **4 Units** \*
- BUS 1 INTRODUCTION TO BUSINESS **3 Units**
- or*
- BUS 1H HONORS INTRODUCTION TO BUSINESS **3 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**
- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*

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

## Associate of 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 of 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.

## Economics

### Associate in Arts for Transfer

The Associate in Arts in Economics for Transfer degree provides a foundation in economics and the mathematics necessary for upper-division economics for students planning to transfer into a baccalaureate program in economics. This background should provide students with the tools to complete a bachelor's degree successfully. Students who complete the Associate in Arts in Economics 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 that can be achieved through transfer.

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 the following:
  - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education- Breadth requirements.
  - b. A minimum of 18 semester or 27 quarter units in a major 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.

## 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.

## Required Courses

- ECON 2 PRINCIPLES (MACRO) **3 Units** \*
- or*
- ECON 2H HONORS PRINCIPLES OF MACROECONOMICS **3 Units** \*
- ECON 4 PRINCIPLES (MICRO) **3 Units** \*
- or*
- ECON 4H HONORS PRINCIPLES OF MICROECONOMICS **3 Units** \*
- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*
- MATH 11 A BRIEF COURSE IN CALCULUS **5 Units** \*
- or*
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- or*
- MATH 3AH HONORS ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*

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

- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- ACCT 1A FINANCIAL ACCOUNTING **4 Units**
- ACCT 1B MANAGERIAL ACCOUNTING **4 Units** \*
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**
- BUS 104 BUSINESS COMMUNICATION **3 Units** \*

## GROUP B: Select one of the following courses or any course from GROUP A not already used (3-5 units):

- PS 11 INTERNATIONAL POLITICAL ECONOMY **3 Units**
  - or*
  - ECON 11 INTERNATIONAL POLITICAL ECONOMY **3 Units**
  - MATH 3C ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
  - MATH 26 INTRODUCTION TO LINEAR ALGEBRA **4 Units** \*
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

## Total Units for the Major: 20-24



## 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 Associate in Science

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.

#### Required Courses

- ET 114 DIGITAL ELECTRONIC CIRCUITS **4 Units** \*
- ET 118 ELECTRONIC COMMUNICATION SYSTEMS **4 Units** \*
- ET 133 DC AND AC FUNDAMENTALS **4 Units**
- ET 135 SEMICONDUCTOR DEVICES AND CIRCUITS **4 Units** \*
- ET 200 DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS **4 Units** \*

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

**Total Units for the Major: 20**

#### Associate in Science Degree

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

## 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 program; CMT 220, CMT 225, CMT 230; MATH 7, MATH 124, MATH 251, MATH 253; PHYS 2A, PHYS 2B, PHYS 20.

### Digital Electronic Technology Associate in Science

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.

#### Required Courses

- CMT 220 COMPUTER MAINTENANCE AND REPAIR I **3 Units**
- CMT 225 COMPUTER MAINTENANCE AND REPAIR II **3 Units** \*
- ET 114 DIGITAL ELECTRONIC CIRCUITS **4 Units** \*
- ET 133 DC AND AC FUNDAMENTALS **4 Units**
- ET 135 SEMICONDUCTOR DEVICES AND CIRCUITS **4 Units** \*
- ET 200 DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS **4 Units** \*

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

**Total Units for the Major: 22**

#### Associate in Science Degree

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

## 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, CS 3A, CS 3B; MATH 7, MATH 124, MATH 251, MATH 253; PHYS 2A, PHYS 2B, PHYS 20.

## General Electronic Technology Associate in Science

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.

### Required Courses

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

**Total Units for the Major: 18-20**

### Restricted Electives

- ET 118 ELECTRONIC COMMUNICATION SYSTEMS **4 Units** \*
- ET 200 DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS **4 Units** \*
- ET 201 ROBOTICS FUNDAMENTALS **2 Units**
- ET 202 INTERMEDIATE ROBOTICS **2 Units** \*

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

### Associate in Science Degree

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

### 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, MATH 253, 255; PHYS 2A, PHYS 2B, PHYS 20.

## Analog and Digital Circuit Electronic Technology Certificate of Achievement

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.

### Required Courses

- ET 114 DIGITAL ELECTRONIC CIRCUITS **4 Units** \*
- ET 118 ELECTRONIC COMMUNICATION SYSTEMS **4 Units** \*
- ET 133 DC AND AC FUNDAMENTALS **4 Units**
- ET 135 SEMICONDUCTOR DEVICES AND CIRCUITS **4 Units** \*
- ET 200 DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS **4 Units** \*

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

**Total Units for the Certificate: 20**

## Digital Electronic Technology Certificate of Achievement

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.

**Required Courses**

- CMT 220 COMPUTER MAINTENANCE AND REPAIR I **3 Units**
- CMT 225 COMPUTER MAINTENANCE AND REPAIR II **3 Units \***
- ET 114 DIGITAL ELECTRONIC CIRCUITS **4 Units \***
- ET 133 DC AND AC FUNDAMENTALS **4 Units**
- ET 135 SEMICONDUCTOR DEVICES AND CIRCUITS **4 Units \***
- ET 200 DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS **4 Units \***

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

**Total Units for the Certificate: 22**

### **General Electronic Technology Certificate of Achievement**

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.

**Required Courses**

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

**Total Units for the Certificate: 18-20**

**Restricted Electives**

- ET 118 ELECTRONIC COMMUNICATION SYSTEMS **4 Units \***
- ET 200 DIGITAL SIGNAL PROCESSING AND MICROCONTROLLERS **4 Units \***
- ET 201 ROBOTICS FUNDAMENTALS **2 Units**
- ET 202 INTERMEDIATE ROBOTICS **2 Units \***

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

### **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.

**Required Courses**

- ET 114 DIGITAL ELECTRONIC CIRCUITS **4 Units \***
- ET 133 DC AND AC FUNDAMENTALS **4 Units**

- ET 135 SEMICONDUCTOR DEVICES AND CIRCUITS **4 Units \***
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Award: 12**

### **Emergency Medical Technician Occupational Skills Award**

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

**Required Courses**

- EMT 207 EMERGENCY MEDICAL TECHNICIAN PROCEDURES **11 Units**
- EMT 207C EMERGENCY MEDICAL TECHNICIAN CLINICAL OBSERVATION **0.75 Unit \***

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

**Total Units for the Award: 11.75**

### **Engineering Associate in Science**

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.

**First Year**

- CHEM 1A GENERAL CHEMISTRY **5 Units \***
- CHEM 1B GENERAL CHEMISTRY **5 Units \***
- CS 1A - Introduction to Computer Science **3 Units**
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- PHYS 4A GENERAL PHYSICS **5 Units \***

**Second Year**

- MATH 3C ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- MATH 24 ELEMENTARY DIFFERENTIAL EQUATIONS **4 Units \***
- MATH 26 INTRODUCTION TO LINEAR ALGEBRA **4 Units \***
- PHYS 4B GENERAL PHYSICS **5 Units \***
- PHYS 4C GENERAL PHYSICS **5 Units \***

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

**Total Units for the Major: 51**

## Associate in Science Degree

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

## 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.

## English Literature Associate in Arts

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.

## Required Courses

- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- ENG 1B PRINCIPLES OF COMPOSITION II **3 Units** \*
- Select from Restricted Electives **12 Units**

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

## Total Units for the Major: 19

## Restricted Electives

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

## 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.

Suggested coursework not required for the major: ENG 44, ENG 52; HIST 4, HIST 5; PHIL 1, PHIL 12. Completion of four college semesters, or the equivalent, of a foreign language is strongly recommended.

## English Associate in Arts 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.

**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 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.

## Required Courses

- ENG 1B PRINCIPLES OF COMPOSITION II **3 Units** \*
- ENG 25 INTRODUCTION TO LITERATURE **3 Units** \*

## Group A

**Select two of the following courses (6 units):**

- ENG 15A SURVEY OF AMERICAN LITERATURE - 1620-1860 **3 Units** \*
- ENG 15B SURVEY OF AMERICAN LITERATURE - 1860-CONTEMPORARY **3 Units** \*
- ENG 17A SURVEY OF ENGLISH LITERATURE - BEOWULF TO ROMANTIC MOVEMENT **3 Units** \*
- ENG 17B SURVEY OF ENGLISH LIT - ROMANTIC MOVEMENT TO THE PRESENT **3 Units** \*
- ENG 21A WORLD LITERATURE - ANCIENT TO 17TH CENTURY **3 Units** \*
- ENG 21B WORLD LITERATURE - 17TH CENTURY TO MODERN PERIOD **3 Units** \*



**Group B (3 units)**

- ENG 3 INTRODUCTION TO CREATIVE WRITING **3 Units \***

**Group C**

**Select one of the following courses or any course from List A not already used (3-5 units):**

- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units \***
- SPAN 1 ELEMENTARY SPANISH **5 Units \***
- SPAN 2 ELEMENTARY SPANISH **5 Units \***
- SPAN 3 INTERMEDIATE SPANISH **5 Units \***
- JRN 2 NEWS WRITING **3 Units \***
- BUS 104 BUSINESS COMMUNICATION **3 Units \***
- SP 30 INTRODUCTION TO ORAL INTERPRETATION **3 Units**
- TA 20 THEATRE APPRECIATION **3 Units**

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

**Total Units for the Major: 18-20**

### English as a Second Language Advanced Level Certificate of Completion

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**

- ESL 340 - Advanced Multiskills **99.6 Hours \***
- ESL 342 - Advanced Conversation **49.8 Hours \***
- ESL 343 - Advanced Pronunciation **49.8 Hours \***  
*and*
- ESL 999 - ESL Laboratory **16.6 Hours \***

**Select one Vocabulary Course**

- ESL 344 - Idioms and Expressions in American English **33.2 Hours \***  
*or*
- ESL 354 - Vocabulary Skills for College **49.8 Hours \***

**Select one Academic/Writing Course**

- ESL 350 - Essential Academic Skills **99.6 Hours \***  
*or*
- ESL 346 - Advanced Writing for Work **49.8 Hours \***  
*or*
- ESL 345 - Advanced Reading and Writing **49.8 Hours \***  
*and*
- ESL 888 - ESL Skills Lab **16.6 Hours \***

**Select one Grammar Course with a Lab**

- ESL 347 - Advanced Grammar Review **49.8 Hours \***  
*and*
- ESL 999 - ESL Laboratory **16.6 Hours \***  
*or*
- ESL 357 - Grammar Review for College **49.8 Hours \***  
*and*
- ESL 999 - ESL Laboratory **16.6 Hours \***
- Select one Restricted Elective from below **49.8 Hours**

**Restricted Electives**

- ESL 355 - ESL Reading for College: American Literature **49.8 Hours \***
- ESL 358 - Listening and Notetaking Skills for College **49.8 Hours \***
- ESL 359 - American Language and Culture through Film **49.8 Hours \***

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

**Total Hours for the Certificate: 348**

### English as a Second Language Beginning Level Certificate of Completion

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

**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.

**Required Courses**

- ESL 320 - Beginning Multiskills I **99.6 Hours**
- ESL 321 - Beginning Multiskills II **99.6 Hours \***
- ESL 322 - Beginning Conversation **49.8 Hours**
- ESL 323 - Beginning Pronunciation **33.2 Hours \***
- ESL 325 - Beginning Reading and Writing **49.8 Hours \***

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

**Total Hours for the Certificate: 332**



## English as a Second Language Intermediate Level-Pre College Certificate of Completion

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.

### Core Courses

- ESL 330 - Intermediate Multiskills I **99.6 Hours \***
  - ESL 331 - Intermediate Multiskills II **99.6 Hours \***
  - ESL 332 - Intermediate Conversation **49.8 Hours \***
  - ESL 333 - Intermediate Pronunciation **49.8 Hours \***
  - ESL 335 - Intermediate Writing I **49.8 Hours \***  
*or*
  - ESL 336 - Intermediate Writing II **49.8 Hours \***  
*and*
  - ESL 801 - Intermediate Writing II Lab **16.6 Hours \***
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

**Total Hours for the Certificate: 348.6- 365.2**

## Environmental Studies Associate in Arts

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 literacy and ability to engage in scientific inquiry concerning environmental issues through the evaluation and analysis of scientific literature, and presentation of results in written and oral form.
- Evaluate environmental impact of personal decisions on the local, regional, national, and global environment.

### Required Courses

- ENV 1 INTRODUCTION TO ENVIRONMENTAL STUDIES **3 Units**
- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**
- CHEM 3 FUNDAMENTAL CHEMISTRY **4 Units \***
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units \***  
*or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units \***
- ENG 1B PRINCIPLES OF COMPOSITION II **3 Units \***  
*or*
- ENG 1BH HONORS PRINCIPLES OF COMPOSITION II **3 Units \***
- MATH 10 INTRODUCTION TO STATISTICS **3 Units**
- Select from Restricted Electives **9-12 Units**

**Total Units for the Major: 30-33**

### Restricted Electives

- ENV 6 SCARCITY AND ENVIRONMENT **3 Units \***
  - ENV 16 ENVIRONMENTAL DISASTERS **3 Units**
  - ENV 23 ENVIRONMENTAL GEOLOGY **4 Units**  
*or*
  - GEOL 23 ENVIRONMENTAL GEOLOGY **4 Units**
  - ENV 24 NATURAL HISTORY OF CALIFORNIA **4 Units**
  - ENV 25 ENVIRONMENTAL HAZARDS TO HEALTH **3 Units**
  - ENV 30 ALTERNATIVE ENERGY TECHNOLOGIES **3 Units**
  - ENV 37 ENVIRONMENTAL ETHICS **3 Units**
  - ENV 40 ENVIRONMENTAL LAW AND POLICY **3 Units**
  - ENV 105 ENVIRONMENTAL STUDIES INTERNSHIP **2 Units \***
  - ENV 106 NATURAL RESOURCE CONSERVATION **3 Units**
  - ENV 123 WATER AND SOIL CONSERVATION **3 Units**
  - ENV 140 WATER QUALITY AND MONITORING **3 Units**
  - ENV 141 WATER RESOURCES AND MANAGEMENT **4 Units**
  - CWE 180 CO-OP-ED ENVIRONMENTAL STUDIES **1 Unit**  
*or*
  - CWE 180 CO-OP-ED ENVIRONMENTAL STUDIES **2 Units**
  - GEOG 110 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) **2 Units**  
*or*
  - GIS 110 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) **2 Units**
- \*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.

### Water Resources and Conservation Certificate of Achievement

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.

#### Required Courses

- ENV 1 INTRODUCTION TO ENVIRONMENTAL STUDIES **3 Units**
- ENV 6 SCARCITY AND ENVIRONMENT **3 Units** \*
- ENV 40 ENVIRONMENTAL LAW AND POLICY **3 Units**
- ENV 105 ENVIRONMENTAL STUDIES INTERNSHIP **2 Units** \*
- ENV 123 WATER AND SOIL CONSERVATION **3 Units**
- ENV 140 WATER QUALITY AND MONITORING **3 Units**
- ENV 141 WATER RESOURCES AND MANAGEMENT **4 Units**
- CWE 180 CO-OP-ED ENVIRONMENTAL STUDIES **1 Unit**

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

**Total Units for the Certificate: 22**

## Sustainability Studies Occupational Skills Award

The goal of Sustainability Studies is to create ecologically and socially appropriate solutions to manage our human needs, impacts with the built environment, and the emerging green economy within the capacity of nature without compromising future generations. The goal is to educate students on the importance of sustainability and then train them how to become sustainable not only in their everyday lives, but in their careers as well. Students will be prepared to transfer to sustainability related programs at the university level, be at an advantage for jobs in the coming green economy, be positioned to develop new businesses and other employment opportunities, and become more engaged citizens.

#### Required Courses

- ENV 1 INTRODUCTION TO ENVIRONMENTAL STUDIES **3 Units**
- ENV 6 SCARCITY AND ENVIRONMENT **3 Units** \*
- or
- ENV 37 ENVIRONMENTAL ETHICS **3 Units**
- ENV 202 GREEN LIVING **2 Units**
- Select from Restricted Electives **6 Units**

**Total Units for the Award: 14**

#### Restricted Electives

- ENV 30 ALTERNATIVE ENERGY TECHNOLOGIES **3 Units**
- ENV 106 NATURAL RESOURCE CONSERVATION **3 Units**
- ENV 123 WATER AND SOIL CONSERVATION **3 Units**

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

## Family and Consumer Sciences Associate in Science

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.

#### Required Courses

- FASH 31 TEXTILES **3 Units**
- or
- BUS 31 TEXTILES **3 Units**
- FASH 110 CONTEMPORARY CLOTHING CONSTRUCTION **3 Units** \*
- FCS 115 CONSUMER ISSUES **3 Units**
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*

- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**
- ID 121 SPACE PLANNING **3 Units \***
- Select from Restricted Electives **6 Units**

### Total Units for the Major: 27

#### Restricted Electives

- FASH 112 FASHION SEWING—ADVANCED **3 Units \***
- FASH 141 APPAREL SELECTION **3 Units**
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**
- FCS 142 LIFE MANAGEMENT **3 Units**
- FN 64 NUTRITION ISSUES **3 Units**
- FN 120 CONTEMPORARY MEALS **3 Units \***
- FN 160 NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS **3 Units**
- FN 171 SANITATION AND SAFETY **2 Units**
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- ID 122 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I **3 Units**
- ID 125 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II **3 Units**

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

#### Associate in Science Degree

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

#### 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: FASH 120, FASH 130, FASH 140; FN 140, FN 142, FN 171.

## Family and Consumer Sciences Certificate of Achievement

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.

#### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 110 CONTEMPORARY CLOTHING CONSTRUCTION **3 Units \***
- FCS 115 CONSUMER ISSUES **3 Units**
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units \***
- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**
- ID 121 SPACE PLANNING **3 Units \***
- Select from Restricted Electives **6 Units**

### Total Units for the Certificate: 27

#### Restricted Electives

- FASH 112 FASHION SEWING—ADVANCED **3 Units \***
- FASH 141 APPAREL SELECTION **3 Units**
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**
- FCS 142 LIFE MANAGEMENT **3 Units**
- FN 64 - NUTRITION ISSUES **3 Units**
- FN 120 CONTEMPORARY MEALS **3 Units \***
- FN 160 NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS **3 Units**
- FN 171 SANITATION AND SAFETY **2 Units**
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- ID 122 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I **3 Units**
- ID 125 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II **3 Units**

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

## 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.

## Fashion Design Associate in Science

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.

### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 101 INTRODUCTION TO FASHION CAREERS **3 Units**
- FASH 111 SEWING FOR FASHION DESIGN II **3 Units \***
- FASH 112 FASHION SEWING—ADVANCED **3 Units \***  
*or*
- FASH 124 WEARABLE ART **3 Units \***  
*or*
- FASH 211 ADVANCED DRESSMAKING AND CUSTOM SEWING **3 Units \***
- FASH 130 FLAT PATTERN DESIGN **4 Units \***
- FASH 132 DRAPING FASHION DESIGNS **3 Units \***
- FASH 141 APPAREL SELECTION **3 Units**
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**
- FASH 145 INTERNSHIP **1 Unit \*§**  
*or*
- BUS 145 INTERNSHIP **1 Unit \*§**  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit \*†**
- FASH 150 FASHION APPAREL AND PROFESSIONAL TECHNIQUES **3 Units**
- FASH 154 FASHION ILLUSTRATION **3 Units**
- FASH 247 SPECIAL EVENTS PARTICIPATION **1 Unit**  
*or*
- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**
- FASH 260 THE DIGITAL FASHION IMAGE **2 Units \*«**  
*or*
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit**  
*and*
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit «**

**Total Units for the Major: 36**

### Optional Lab/Studio

- FASH 212 CONSTRUCTION LAB **1 Unit**
- FASH 213 DESIGNER'S LAB **1 Unit \***
- FASH 214 COUTURE LAB **1 Unit \***
- FASH 216 COSTUMER'S LAB **1 Unit**
- FASH 219 DRESSMAKING LAB **1 Unit**
- FASH 220 TAILOR'S LAB **1 Unit \***

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

### 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\*.

### Advanced Fashion Design and Apparel Manufacturing Certificate of Achievement

The Advanced Fashion Design and Apparel Manufacturing certificate prepares the Fashion design student to enter the apparel manufacturing field. It explores the fashion industry, studying the many career options available beyond design. It then goes deeply into pattern and clothing manufacturing. The student who completes the Fashion Design program and then completes this advanced program will not only be able to design clothing but will be able to participate in many of the manufacturing processes.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- 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.

### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 101 INTRODUCTION TO FASHION CAREERS **3 Units**
- FASH 111 SEWING FOR FASHION DESIGN II **3 Units \***
- FASH 112 FASHION SEWING—ADVANCED **3 Units \***  
*or*
- FASH 211 ADVANCED DRESSMAKING AND CUSTOM SEWING **3 Units \***  
*or*
- FASH 120 TAILORING **3 Units**
- FASH 113 COUTURE SEWING **2 Units \***
- FASH 124 WEARABLE ART **3 Units \***  
*or*
- FASH 240 DYE PROCESSES ON FABRICS **3 Units**  
*or*
- FASH 205 CORSET CONSTRUCTION **3 Units \***
- FASH 130 FLAT PATTERN DESIGN **4 Units \***



- FASH 132 DRAPING FASHION DESIGNS **3 Units \***
- FASH 136 APPAREL DESIGN **3 Units \***  
*or*
- FASH 251 DESIGNING FOR A CAUSE AND SUSTAINABLE FASHION **3 Units \***  
*or*
- FASH 224 ACCESSORY DESIGN **3 Units**
- FASH 141 APPAREL SELECTION **3 Units**
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**
- FASH 145 INTERNSHIP **1 Unit \*§**  
*or*
- BUS 145 INTERNSHIP **1 Unit \*§**  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit \*†**
- FASH 150 FASHION APPAREL AND PROFESSIONAL TECHNIQUES **3 Units**
- FASH 154 FASHION ILLUSTRATION **3 Units**
- FASH 247 SPECIAL EVENTS PARTICIPATION **1 Unit**  
*or*
- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**
- FASH 234 ADVANCED PATTERN AND DESIGN TECHNIQUES **2 Units \***  
*or*
- FASH 238 ADVANCED DRAPING AND FASHION DESIGN **2 Units \***  
*or*
- FASH 131 CAD PATTERNMAKING WITH TUKATECH **3 Units \***
- FASH 235 DESIGNING FOR THE FASHION INDUSTRY **2 Units \***
- FASH 260 THE DIGITAL FASHION IMAGE **2 Units \*«**  
*or*
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit «**  
*and*
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit «**

**Total Units for the Certificate: 48-49**

#### Optional Lab/Studio

- FASH 212 CONSTRUCTION LAB **1 Unit**
- FASH 213 DESIGNER'S LAB **1 Unit \***
- FASH 214 COUTURE LAB **1 Unit \***
- FASH 216 COSTUMER'S LAB **1 Unit**
- FASH 219 DRESSMAKING LAB **1 Unit**
- FASH 220 TAILOR'S LAB **1 Unit \***

\*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: ART 42\*; CIM 1; FASH 120\*, FASH 143, FASH 147/BUS 147, FASH 209\*; GC 101; ETT 42.

## Fashion Design Certificate of Achievement

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.

### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 101 INTRODUCTION TO FASHION CAREERS **3 Units**
- FASH 111 SEWING FOR FASHION DESIGN II **3 Units \***
- FASH 112 FASHION SEWING—ADVANCED **3 Units \***  
*or*
- FASH 124 WEARABLE ART **3 Units \***  
*or*
- FASH 211 ADVANCED DRESSMAKING AND CUSTOM SEWING **3 Units \***
- FASH 130 FLAT PATTERN DESIGN **4 Units \***
- FASH 132 DRAPING FASHION DESIGNS **3 Units \***
- FASH 141 APPAREL SELECTION **3 Units**
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**
- FASH 145 INTERNSHIP **1 Unit \*§**  
*or*
- BUS 145 INTERNSHIP **1 Unit \*§**  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit \*†**
- FASH 150 FASHION APPAREL AND PROFESSIONAL TECHNIQUES **3 Units**
- FASH 154 FASHION ILLUSTRATION **3 Units**
- FASH 247 SPECIAL EVENTS PARTICIPATION **1 Unit**  
*or*
- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**
- FASH 260 THE DIGITAL FASHION IMAGE **2 Units \*«**  
*or*
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit**  
*and*
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit «**

**Total Units for the Certificate: 36**



**Optional Lab/Studio**

- FASH 212 CONSTRUCTION LAB **1 Unit**
- FASH 213 DESIGNER'S LAB **1 Unit** \*
- FASH 214 COUTURE LAB **1 Unit** \*
- FASH 216 COSTUMER'S LAB **1 Unit**
- FASH 219 DRESSMAKING LAB **1 Unit**
- FASH 220 TAILOR'S LAB **1 Unit** \*

\*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.

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.

**Required Courses**

- FASH 100 SEWING FOR FASHION DESIGN I **3 Units**
- FASH 217 FOOTWEAR DESIGN AND CONSTRUCTION **2 Units**
- FASH 240 DYE PROCESSES ON FABRICS **3 Units**
- FASH 260 THE DIGITAL FASHION IMAGE **2 Units** \*«  
or
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit**  
and
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit** «
- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**  
or
- FASH 207 ECO-FRIENDLY FASHION TOUR **1 Unit**
- FASH 223 MILLINERY DESIGN **3 Units**
- FASH 224 ACCESSORY DESIGN **3 Units**

\*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

**Total Units for the Award: 15-16**

### **Basic Costume Construction and Sourcing Occupational Skills Award**

The Basic Costume Construction and Sourcing Occupational Skills Award prepares the student with the basic skills necessary to source and construct costumes for a costume designer working in the areas of: film, television, dance, theater/opera, theme parks, special events, cultural/ethnic costumes, costume shops, e-commerce, uniform/sports, and advertisement/promotion. 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.

**Required Courses**

- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- FASH 31 TEXTILES **3 Units**
- FASH 111 SEWING FOR FASHION DESIGN II **3 Units** \*  
or
- FASH 221 CONTEMPORARY TAILORING **2 Units**  
or
- FASH 206 DESIGNING & CONSTRUCTING KNITWEAR, ACTIVEWEAR, SWIMWEAR **3 Units** \*
- FASH 132 DRAPING FASHION DESIGNS **3 Units** \*
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**  
or
- ETT 42 COSTUME DESIGN **3 Units**
- FASH 205 CORSET CONSTRUCTION **3 Units** \*  
or
- FASH 240 DYE PROCESSES ON FABRICS **3 Units**  
or
- FASH 208 SEWING VINTAGE FASHIONS **3 Units** \*  
or
- FASH 223 MILLINERY DESIGN **3 Units**
- FASH 145 INTERNSHIP **1 Unit** \*  
or
- BUS 145 INTERNSHIP **1 Unit** \*

**Total Units for the Award: 16-17**

**Optional Lab/Studio**

- FASH 216 COSTUMER'S LAB **1 Unit**
- FASH 220 TAILOR'S LAB **1 Unit** \*

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

### **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.

### Required Courses

- FASH 131 CAD PATTERNMAKING WITH TUKATECH **3 Units \***
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit**
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit**
- FASH 260 THE DIGITAL FASHION IMAGE **2 Units \***
- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**  
*or*
- FASH 207 ECO-FRIENDLY FASHION TOUR **1 Unit**
- FASH 145 INTERNSHIP **1 Unit \*§**  
*or*
- BUS 145 INTERNSHIP **1 Unit \*§**  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit \*†**  
\*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\*

**Total Units for the Award: 10**

### 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. Course work 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.

### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 130 FLAT PATTERN DESIGN **4 Units \***  
*or*
- FASH 132 DRAPING FASHION DESIGNS **3 Units**
- FASH 136 APPAREL DESIGN **3 Units \***  
*or*
- FASH 251 DESIGNING FOR A CAUSE AND SUSTAINABLE FASHION **3 Units \***  
*or*
- FASH 235 DESIGNING FOR THE FASHION INDUSTRY **2 Units \***
- FASH 145 INTERNSHIP **1 Unit \*§**  
*or*
- BUS 145 INTERNSHIP **1 Unit \*§**  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit \*†**
- FASH 240 DYE PROCESSES ON FABRICS **3 Units**
- FASH 207 ECO-FRIENDLY FASHION TOUR **1 Unit**
- FASH 247 SPECIAL EVENTS PARTICIPATION **1 Unit**  
*or*

- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**  
\*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\*

**Total Units for the Award: 15-17**

### 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 Associate in Science

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.

### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 101 INTRODUCTION TO FASHION CAREERS **3 Units**
- FASH 143 FASHION BUYING AND MERCHANDISING **3 Units**  
*or*
- BUS 143 FASHION BUYING AND MERCHANDISING **3 Units**
- FASH 140 FASHION IMAGE **3 Units**  
*or*
- FASH 141 APPAREL SELECTION **3 Units**
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**
- FASH 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**  
*or*
- BUS 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**
- FASH 148 VISUAL MERCHANDISING **3 Units**  
*or*
- BUS 148 VISUAL MERCHANDISING **3 Units**

- FASH 150 FASHION APPAREL AND PROFESSIONAL TECHNIQUES **3 Units**
- FASH 154 FASHION ILLUSTRATION **3 Units**
- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**
- FASH 145 INTERNSHIP **1 Unit** \*§  
*or*
- BUS 145 INTERNSHIP **1 Unit** \*§  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- Select one course from each Group **8 Units**

### Total Units for the Major: 38

#### Group 1

- BUS 136 PRINCIPLES OF RETAILING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- BUS 160 ENTREPRENEURSHIP **3 Units**

#### Group 2

- FASH 260 THE DIGITAL FASHION IMAGE **2 Units** \*«  
*or*
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit**  
*and*
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit** «

#### Group 3

- FASH 100 SEWING FOR FASHION DESIGN I **3 Units**
- FASH 110 CONTEMPORARY CLOTHING CONSTRUCTION **3 Units** \*

#### Optional Lab/Studio

- FASH 212 CONSTRUCTION LAB **1 Unit**  
\*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 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.

Suggested coursework not required for the major: BUS 12, 103, 125, 136, 137, 138; FCS 115, GC 101.

## Visual Fashion Merchandising Associate in Science

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.

### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 101 INTRODUCTION TO FASHION CAREERS **3 Units**
- FASH 143 FASHION BUYING AND MERCHANDISING **3 Units**  
*or*
- BUS 143 FASHION BUYING AND MERCHANDISING **3 Units**
- FASH 144 - FASHION TRENDS **3 Units**
- FASH 145 INTERNSHIP **1 Unit** \*§  
*or*
- BUS 145 INTERNSHIP **1 Unit** \*§  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- FASH 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**  
*or*
- BUS 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**
- FASH 148 VISUAL MERCHANDISING **3 Units**  
*or*
- BUS 148 VISUAL MERCHANDISING **3 Units**
- FASH 150 FASHION APPAREL AND PROFESSIONAL TECHNIQUES **3 Units**
- FASH 154 FASHION ILLUSTRATION **3 Units**
- Select one course from each Group **5 Units**

### Total Units for the Major: 31

#### Group 1

- ART 42 COLOR THEORY AND PRACTICE **3 Units**
- ART 100 ART GALLERY/DISPLAY AND EXHIBITION **3 Units**
- FASH 140 FASHION IMAGE **3 Units**

**Group 2**

- FASH 260 THE DIGITAL FASHION IMAGE **2 Units** \*«  
*or*
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit** «  
*and*
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit** «

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

**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 40, ART 41\*, ART 50\*, ART 80, ART 142/GD 142; BUS 138/CTVR 138; ETT 40; FASH 100, FASH 254; GC 101; GD 141/ART 141; ID 110, ID 127\*.

## Fashion Merchandising Certificate of Achievement

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.

**Required Courses**

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 101 INTRODUCTION TO FASHION CAREERS **3 Units**
- FASH 143 FASHION BUYING AND MERCHANDISING **3 Units**  
*or*
- BUS 143 FASHION BUYING AND MERCHANDISING **3 Units**
- FASH 140 FASHION IMAGE **3 Units**  
*or*

- FASH 141 APPAREL SELECTION **3 Units**
- FASH 144 FASHION TRENDS AND CULTURAL COSTUMES **3 Units**
- FASH 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**  
*or*
- BUS 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**
- FASH 148 VISUAL MERCHANDISING **3 Units**  
*or*
- BUS 148 VISUAL MERCHANDISING **3 Units**
- FASH 150 FASHION APPAREL AND PROFESSIONAL TECHNIQUES **3 Units**
- FASH 154 FASHION ILLUSTRATION **3 Units**
- FASH 254 FASHION IN SOUTHERN CALIFORNIA **1 Unit**
- FASH 145 INTERNSHIP **1 Unit** \*§  
*or*
- BUS 145 INTERNSHIP **1 Unit** \*§  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- Select one course from each Group **8 Units**

**Total Units for the Certificate: 38****Group 1**

- BUS 136 PRINCIPLES OF RETAILING **3 Units**
- BUS 137 PROFESSIONAL SELLING FUNDAMENTALS **3 Units**
- BUS 160 ENTREPRENEURSHIP **3 Units**

**Group 2**

- FASH 260 THE DIGITAL FASHION IMAGE **2 Units** \*«  
*or*
- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit**  
*and*
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit** «

**Group 3**

- FASH 100 SEWING FOR FASHION DESIGN I **3 Units**
- FASH 110 CONTEMPORARY CLOTHING CONSTRUCTION **3 Units** \*

**Optional Lab/Studio**

- FASH 212 CONSTRUCTION LAB **1 Unit**
- FASH 219 DRESSMAKING LAB **1 Unit**  
\*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.



## Visual Fashion Merchandising Certificate of Achievement

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.

### Required Courses

- FASH 31 TEXTILES **3 Units**  
*or*
- BUS 31 TEXTILES **3 Units**
- FASH 101 INTRODUCTION TO FASHION CAREERS **3 Units**
- FASH 143 FASHION BUYING AND MERCHANDISING **3 Units**  
*or*
- BUS 143 FASHION BUYING AND MERCHANDISING **3 Units**
- FASH 144 - FASHION TRENDS **3 Units**
- FASH 145 INTERNSHIP **1 Unit** \*§  
*or*
- BUS 145 INTERNSHIP **1 Unit** \*§  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- FASH 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**  
*or*
- BUS 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**
- FASH 148 VISUAL MERCHANDISING **3 Units**  
*or*
- BUS 148 VISUAL MERCHANDISING **3 Units**
- FASH 150 FASHION APPAREL AND PROFESSIONAL TECHNIQUES **3 Units**
- FASH 154 FASHION ILLUSTRATION **3 Units**
- Select one course from each Group **5 Units**

**Total Units for the Certificate: 31**

### Group 1

- ART 42 COLOR THEORY AND PRACTICE **3 Units** \*
- ART 100 - Art Gallery/Display and Exhibition **3 Units**
- FASH 140 FASHION IMAGE **3 Units**

### Group 2

- FASH 260 THE DIGITAL FASHION IMAGE **2 Units** \*«  
*or*

- FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION **1 Unit**  
*and*
- FASH 225 APPAREL CART - FASHION RETAILING ONLINE WITH EASY CART SHOP **1 Unit** «  
\*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 .  
†Recommended to be taken in last semester of program.

## 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.

### Required Courses

- BUS 160 ENTREPRENEURSHIP **3 Units**
- FASH 145 INTERNSHIP **1 Unit** \*§  
*or*
- BUS 145 INTERNSHIP **1 Unit** \*§  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- FASH 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**  
*or*
- BUS 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**
- FASH 148 VISUAL MERCHANDISING **3 Units**  
*or*
- BUS 148 VISUAL MERCHANDISING **3 Units**  
\*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.

**Total Units for the Award: 14**

## 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.



**Required Courses**

- BUS 160 ENTREPRENEURSHIP **3 Units**
- FASH 145 INTERNSHIP **1 Unit** \*§  
*or*
- BUS 145 INTERNSHIP **1 Unit** \*§  
*and*
- CWE 180 CO-OP-ED FASHION **1 Unit** \*†
- FASH 140 FASHION IMAGE **3 Units**
- FASH 141 APPAREL SELECTION **3 Units**
- FASH 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**  
*or*
- BUS 147 SPECIAL EVENTS COORDINATION AND PROMOTION **3 Units**

\*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\*

**Total Units for the Award: 14**

### Foods Associate in Science

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.

**Required Courses**

- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
- FN 120 CONTEMPORARY MEALS **3 Units** \*
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units** \*
- FN 240 CULINARY PRINCIPLES I **3 Units** \*
- FN 244 BAKING FUNDAMENTALS I **3 Units** \*
- FN 246 PANTRY **3 Units** \*
- FN 261 INTERNSHIP **1 Unit** †§  
*and*

- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †
- FN 275 FOOD AND BEVERAGE OPERATIONS **3 Units**
- Select from Specialty Courses **6-7 Units**

**Total Units for the Major: 33-35****Specialty Courses**

- FN 142 CLASSICAL FRENCH CUISINE **2 Units** \*
- FN 173 CATERING AND BANQUETS **3 Units** \*
- FN 220 FRENCH BISTRO CUISINE **2 Units** \*
- FN 222 CHINESE CUISINE **2 Units** \*
- FN 223 ASIAN CUISINE **2 Units** \*
- FN 226 MEXICAN CUISINE **2 Units** \*
- FN 227 MEDITERRANEAN CUISINE **2 Units** \*
- FN 228 ITALIAN CUISINE **2 Units** \*
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units** \*
- FN 236 AMERICAN REGIONAL CUISINE **2 Units** \*
- FN 241 CULINARY PRINCIPLES II **3 Units** \*
- FN 245 BAKING FUNDAMENTALS II **2 Units** \*

\*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 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.

### Foods Certificate of Achievement

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.

**Required Courses**

- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**  
*or*
- FN 205 NUTRITION FOR CULINARY PROFESSIONALS **3 Units**

- FN 110 FOOD PREPARATION ESSENTIALS **3 Units \***
- FN 120 CONTEMPORARY MEALS **3 Units \***
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units \***
- FN 240 CULINARY PRINCIPLES I **3 Units \***
- FN 244 BAKING FUNDAMENTALS I **3 Units \***
- FN 246 PANTRY **3 Units \***
- FN 261 INTERNSHIP **1 Unit** †§  
*and*
- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †
- FN 275 FOOD AND BEVERAGE OPERATIONS **3 Units**
- Select from Restricted Electives **6-7 Units**

### Restricted Electives

- FN 142 CLASSICAL FRENCH CUISINE **2 Units \***
- FN 173 CATERING AND BANQUETS **3 Units \***
- FN 220 FRENCH BISTRO CUISINE **2 Units \***
- FN 222 CHINESE CUISINE **2 Units \***
- FN 223 ASIAN CUISINE **2 Units \***
- FN 226 MEXICAN CUISINE **2 Units \***
- FN 227 MEDITERRANEAN CUISINE **2 Units \***
- FN 228 ITALIAN CUISINE **2 Units \***
- FN 236 AMERICAN REGIONAL CUISINE **2 Units \***
- FN 241 CULINARY PRINCIPLES II **3 Units \***
- FN 245 BAKING FUNDAMENTALS II **2 Units \***

\*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.

### Total Units for the Certificate: 33-35

## Gender and Sexuality Studies Associate in Arts

The curriculum in the Gender and Sexuality Studies program is designed to provide the transfer student with a critical understanding of how gender and sexuality as socially constructed forms of identity rooted in belief structures, historical processes, political systems, and social and economic institutions interact with other systems of inequality and privilege such as race, class, ethnicity, nationality, religion, and ability to shape the lives of women and men in the United States and around the world. It offers the opportunity to achieve an Associate in Arts (AA) degree in Gender and Sexuality Studies by providing the necessary breadth in the field, an introduction to the methods used in the study of gender and sexuality, and the ability to complete both major preparatory coursework along with courses required for general education. While a baccalaureate or higher degree is recommended for those considering this major, earning an Associate degree may support entry-level positions as a staff member in human services departments, advocate for victims of domestic violence and hate crimes; and a staff member in a women's health clinic, social service agency, or human rights organization.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain how gender and sexuality are socially or culturally constructed identities.

- Discuss how gender and sexuality intersect with other structures of power and privilege to shape individuals' lives.
- Articulate an interdisciplinary understanding of gender and gender dynamics.
- Explain diversity and difference in human experience based on gender, race, class, sexual orientation, nationality, religion, and ability.
- Describe key theories and concepts in the fields of women's, gender, and sexuality studies.
- Analyze social problems as they relate to gender and sexuality.

### Core Requirement

- WS 10 INTRODUCTION TO WOMEN'S STUDIES **3 Units**  
*or*
- WS 10H HONORS INTRO TO WOMEN'S STUDIES **3 Units**

### Majors must also select a minimum of 15 units from the following courses:

- WS 31 GENDER AND POPULAR CULTURE **3 Units**
- WS 11H HONORS INTRODUCTION TO FEMINIST THEORY **3 Units**
- WS 15 INTRODUCTION TO QUEER STUDIES **3 Units**
- ANTH 21 WOMEN, GENDER, AND CULTURE - CROSS-CULTURAL PERSPECTIVES **3 Units**
- CTVR 9 WOMEN IN CINEMA AND TELEVISION **3 Units**
- HIST 21 WOMEN IN UNITED STATES HISTORY - A MULTICULTURAL PERSPECTIVE **3 Units**
- HLTH 3 WOMEN'S HEALTH ISSUES **3 Units**
- PSYC 21 THE PSYCHOLOGY OF WOMEN **3 Units**
- SOC 21 WOMEN IN CONTEMPORARY SOCIETY **3 Units**
- SP 8 GENDER COMMUNICATION **3 Units**
- WS 120 WOMEN AND CAREERS **3 Units**

### Total Units for the Major: 18

### 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.

## General Education CSU-GE Certificate of Achievement

Students may earn a certificate of achievement in general education upon completion of a pattern of approved courses intended for transfer.

### 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.

### 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 Education IGETC Certificate of Achievement

Students may earn a certificate of achievement in general education upon completion of a pattern of approved courses intended for transfer.

#### 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.

### Intersegmental General Education Transfer Curriculum (IGETC)

Completion of a minimum of 37 units including all requirements of the Intersegmental General Education Transfer Curriculum.

### General Studies – Fine Arts & Humanities Associate in Arts

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 judgements.

- ARAB 1\*, 2\*, 21\*
- ARCH 12
- ART 4, 20, 21\*, 22\*, 23\*, 24\*, 25, 26, 28, 29\*
- CHI 1\*, 2\*, 21\*
- CTVR 3, 9\*
- DANC 64
- ENG 3\*, 4\*, 15A\*, 15B\*, 17A\*, 17B\*, 18\*, 19\*, 20\*, 21A\*, 21B\*, 24\*, 25\*, 27A\*, 44\*, 52\*, 142\*
- FASH 144\*
- FA 27
- FR 1\*, 2\*, 3\*, 4\*
- GER 1\*, 2\*, 3\*, 4\*
- HIST 4, 5
- HORT 115
- HUM 1\*, 3\*, 10A\*, 10B\*, 21, 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\*
- SL 1\*, 2\*, 3\*, 4\*
- SP 30/TA 30, SP 32\*/TA 32\*
- SPAN 1\*, 2\*, 3\*, 4\*, 6\*
- TA 20, 22, 25, 26, 110\*

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

### Total Units for the Major: 18

#### 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.

## General Studies Natural Sciences Associate in Arts

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:

#### Natural Sciences

Students will develop an appreciation and understanding of the scientific method and an understanding of the relationships between science and other human activities.

- ANTH 1 and 1L\* (ANTH 1L must be taken concurrently with ANTH 1 or within one year after completing ANTH 1)
- ASTR 20 and 25 combined
- BIO 3A\*, 3B\*, 11\*, 15\*, 19\*, 20, 113
- CHEM 1A\*, 3\*, 108\*
- ENV 18, 24
- GEOG 1 and 1L\* (GEOG 1L must be taken concurrently with GEOG 1 or after completing GEOG1)
- GEOL 1, 20, 23/ENV 23
- HORT 20
- MS 4, 20
- PHYS 2A\*, 4A\*, 20

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

### Total Units for the Major: 18

#### 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.

## General Studies – Social & Behavioral Sciences Associate in Arts

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:

#### Social and Behavioral Sciences

Courses will stimulate critical skills about the ways people act and have acted in response to their societies and will promote appreciation of how societies and social subgroups operate.

- ANTH 2\*, 3\*, 4\*, 5, 8, 9, 10, 17, 21\*
- BUS 1
- CD 105\*, 107\*
- CCS 1\*, 2\*, 10\*
- ECON 2\*, 4\*, 20
- ENV 1
- GEOG 2\*, 3
- HIST 12\*, 19, 20\*/SOC 20\*, 21\*, 27\*, 28\*, 30\*, 33\*, 61\*, 62, 63, 70\*, 71\*, 72\*, 74\*, 75\*, 80\*/PS 80\*, 81\*
- HS 100, 120
- JRN 1/CTVR 1
- PS 4, 11/ECON 11; PS 12\*, 14\*
- PSYC 1, 7\*, 16\*, 21\*
- SOC 1, 2, 6\*, 10, 15\*, 21\*, 25\*
- SP 20\*
- WS 10\*

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

### Total Units for the Major: 18

#### 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.

### Liberal Studies Associate in Arts

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 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.

#### Complete 18 units as described below:

- ENG 1A\* **4 Units**
- SP 1 or 5 **3 Units**
- PS 1 **3 Units**

#### Select one of the following:

- ENG 1B\*, 170; PHIL 12\*; SP 2\*, 3\* **3 Units**

#### Select one of the following:

- HIST 7, 8, 16, 17, 22 **3 Units**

#### Select one of the following:

- MATH 2\*, 3A\*, 3B\*, 3C\* 7\*, 8\*, 10\*, 11\*, 24\*, 26\*, 124\* **3-5 Units**

\*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.

### Geography Associate in Arts

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.
- Identify and describe movement of geographic phenomena.

#### Required Courses

- GEOG 1 PHYSICAL GEOGRAPHY **3 Units**
  - GEOG 1L PHYSICAL GEOGRAPHY LABORATORY **1 Unit \***
  - GEOG 2 CULTURAL GEOGRAPHY **3 Units**
  - GEOG 3 WORLD REGIONAL GEOGRAPHY **3 Units**
  - Select from Restricted Electives **9-13 Units**
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

#### 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.

### 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.

### Geography Associate in Arts for Transfer

The curriculum in the Geography 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.

**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 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.

### Required Courses (6-7 units)

- GEOG 1 PHYSICAL GEOGRAPHY **3 Units**  
*or*
- GEOG 1 - PHYSICAL GEOGRAPHY **3 Units**  
*and*
- GEOG 1L PHYSICAL GEOGRAPHY LABORATORY **1 Unit** \*
- GEOG 2 CULTURAL GEOGRAPHY **3 Units**

### Group A: Select two to three of the following courses (6-8 units):

- GEOG 1L PHYSICAL GEOGRAPHY LABORATORY **1 Unit** \*±
- GEOG 3 WORLD REGIONAL GEOGRAPHY **3 Units**
- GEOG 38 CALIFORNIA GEOGRAPHY **3 Units**
- GEOG 110 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) **2 Units**
- GEOG 102 GEOGRAPHY FIELD STUDIES **1 Unit**
- GEOG 106 FIELD STUDIES OF DESERT REGIONS **1 Unit**
- GEOG 107 FIELD STUDIES OF MOUNTAIN AREAS **1 Unit**
- GEOG 108 - FIELD STUDIES OF WESTERN NORTH AMERICA **2 Units**

### Group B: Select two of the following courses or any course from Group A not already used (6-10 units):

- CS 1B INTRODUCTION TO COMPUTER SCIENCE II **3.5 Units** \*
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- GEOL 20 INTRODUCTION TO EARTH SCIENCE **4 Units**
- PS 1 AMERICAN GOVERNMENT **3 Units**
- CHEM 1A GENERAL CHEMISTRY **5 Units** \*
- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**
- GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY **4 Units**

±Course must be taken if not taken in the required core.

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

### Total Units for the Major: 18-25

## Geology Associate in Science 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, 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 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.

### Required Courses

- GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY **4 Units**
- GEOL 2 HISTORICAL GEOLOGY **4 Units** \*
- CHEM 1A GENERAL CHEMISTRY **5 Units** \*
- CHEM 1B GENERAL CHEMISTRY **5 Units** \*
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*

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

### Total Units for the Major: 28

## Gerontology Certificate of Achievement

The Gerontology Certificate Program is a multidisciplinary approach to the study of aging, the aging process, and working with older adults. Biological, sociological, and psychological aspects of aging are explored. The program aims to educate individuals seeking a career in Gerontology, pursuing advancement in their careers, and who desire to expand their knowledge for personal growth. The certificate program allows students to choose elective courses and provides suggested pathways and career objectives. Employment opportunities may include: business, marketing, environmental design, nutrition, health, recreation, fitness, food services/preparation, social/human services, senior communities, home health care, caregiving, and travel. Additional certification, degrees, and/or training may be required for the fields listed depending on the employer and occupation.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain the key concepts associated with the study of aging and gerontology.
- Apply theoretical perspectives to analyze current and historical topics associated with the study of aging and gerontology.
- Describe the physical, social, familial, and community support networks for aging individuals.
- Explain end-of-life issues and decisions, as well as the topics of bereavement, grief, and mourning.
- Identify and evaluate community support services, agencies, and careers focused on the aging community.
- Demonstrate skills in one of the suggested pathways of study within the certificate program.

### Core/Required Courses

- SOC 180 INTRODUCTION TO GERONTOLOGY **3 Units**
- SOC 126 DEATH AND DYING **3 Units**
- PSYC 125 PSYCHOLOGY OF AGING **3 Units** \*

- SOC 125 SOCIOLOGY OF AGING **3 Units**
- Select from Restricted Electives: **9-10 units**

### **Total Units for the Certificate: 21-22**

#### **Restricted Electives**

Pathways are suggested areas of focus, but completion of any of the courses on the restricted electives list can be used to complete the elective unit requirement.

#### **Pathway 1 - Business**

- ACCT 120 INTRODUCTION TO FINANCIAL PLANNING **3 Units**
- BUS 16 PERSONAL LAW, STREET LAW **3 Units**
- BUS 135 MARKETING **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**

#### **Pathway 2 - Environmental Design**

- ARCH 124A ARCHITECTURAL DRAWING I **4 Units**
- ARCH 219 RESIDENTIAL AND COMMERCIAL SPACE PLANNING **4 Units \***
- ARCH 163 INTERNATIONAL BUILDING CODE INSPECTION **4 Units**
- ID 214 BATH DESIGN **3 Units \***
- or*
- ID 215 KITCHEN DESIGN **3 Units \***
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**

#### **Pathway 3 - Food/Nutrition**

- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units \***
- FN 161 NUTRITION FOR HEALTH OCCUPATIONS **2 Units \***
- FN 169 LIFECYCLE NUTRITION **3 Units**
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units \***
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**

#### **Pathway 4 - Health**

- HLTH 1 CONTEMPORARY HEALTH ISSUES **3 Units**
- HLTH 2 FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR **1.5 Units**
- HSC 106 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION **3 Units**
- HSC 291 MANAGEMENT OF AGGRESSIVE BEHAVIOR IN HEALTHCARE SETTINGS **0.5 Unit**
- HIT 101 ALTERNATIVE HEALTHCARE DELIVERY SYSTEMS **2 Units**
- MA 206 INTRODUCTION TO MEDICAL ASSISTING **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**

#### **Pathway 5 - Recreation/Fitness**

- HSC 151 INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION **3 Units**
- or*
- KNEA 151 INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION **3 Units**
- KNES 51 INTRODUCTION TO KINESIOLOGY **3 Units**
- KNES 52 FUNDAMENTALS OF HUMAN MOVEMENT **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**

#### **Pathway 6 - Human Services**

- HS 100 INTRODUCTION TO HUMAN SERVICES **3 Units \***
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**

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

### **Gerontology Interdisciplinary Certificate of Achievement**

The Gerontology Interdisciplinary Certificate focuses on the study of aging, the aging process, and working with older adults in a variety of capacities. Sociological, psychological, and biological aspects of aging are explored. This certificate aims to educate individuals about the field of aging, while also allowing them to complete coursework in other associated areas of interest. The goal of the certificate is to primarily equip students who are working toward completing (or have completed) related certificates, degrees, or programs, and/or work in the aging profession with foundational knowledge in gerontology. The interdisciplinary certificate allows students to choose elective courses that match pathways that fit within their current area of study. Career opportunities may include: business, marketing, environmental design, nutrition, nursing, medical assisting, health, wellness, recreation, fitness, food services/preparation, human services, senior communities, home health care, caregiving, horticulture, and travel/tourism. Additional certification, degrees, and/or training may be required for the fields listed depending on the employer and occupation.

#### **Program Student Learning Outcomes**

Students who complete this program will be able to:

- Explain the key sociological, psychological, and biological concepts associated with the study of aging.
- Apply theoretical perspectives to analyze current and historical topics associated with the study of aging.
- Describe the physical, social, familial, and community support networks for diverse aging individuals.
- Demonstrate knowledge and skills in one of the suggested pathways of study within the interdisciplinary certificate program.

#### **Required Core (3 Units)**

- SOC 180 INTRODUCTION TO GERONTOLOGY **3 Units**

#### **Required Core (6 Units)**

##### **Choose Two of the following:**

- SOC 125 SOCIOLOGY OF AGING **3 Units**
  - SOC 126 DEATH AND DYING **3 Units**
  - PSYC 125 PSYCHOLOGY OF AGING **3 Units \***
- Select from Restricted Electives: **3-4 Units**

### **TOTAL Units for the Certificate: 12-13**

## Restricted Electives – Choose a minimum of 3-4 units based on the student's pathway:

### Pathway 1 - Business

- ACCT 120 INTRODUCTION TO FINANCIAL PLANNING **3 Units**
- BUS 16 PERSONAL LAW, STREET LAW **3 Units**
- BUS 105 SOCIAL MEDIA MARKETING **3 Units**
- BUS 135 MARKETING **3 Units**
- BUS 160 ENTREPRENEURSHIP **3 Units**

### Pathway 2 - Environmental Design

- ARCH 124A ARCHITECTURAL DRAWING I **4 Units**
- ARCH 219 RESIDENTIAL AND COMMERCIAL SPACE PLANNING **4 Units \***
- ID 210 HOSPITALITY DESIGN **3 Units \***
- ID 214 BATH DESIGN **3 Units \***
- ID 215 KITCHEN DESIGN **3 Units \***
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units \***
- FN 169 LIFECYCLE NUTRITION **3 Units \***
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units \***
- FN 246 PANTRY **3 Units \***

### Pathway 3 - Health and Well-Being

- HLTH 1 CONTEMPORARY HEALTH ISSUES **3 Units**
- HLTH 2 FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR **1.5 Units**
- HLTH 3 WOMEN'S HEALTH ISSUES **3 Units**
- HSC 151 INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION **3 Units**  
*or*
- KNEA 151 INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION **3 Units**
- KNES 60 ANATOMY AND FUNDAMENTALS OF YOGA **3 Units \***

### Pathway 4 - Health Sciences

- HIT 101 ALTERNATIVE HEALTHCARE DELIVERY SYSTEMS **2 Units**
- HSC 106 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION **3 Units**
- HSC 291 MANAGEMENT OF AGGRESSIVE BEHAVIOR IN HEALTHCARE SETTINGS **0.5 Unit**
- MA 206 INTRODUCTION TO MEDICAL ASSISTING **3 Units**
- N 204 BEGINNING NURSING CONCEPTS **2 Units**

### Pathway 5 - Human Services

- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**

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

## Graphics

The Graphics program is designed to prepare students for certificates in the Computer Graphics, Graphic Communications, Graphic Design, and Illustration fields. Training is provided in both theory and practical skills. Directed skill development is stressed in the following areas of study: Computer Graphics (computer art and layout), Graphic Communications (printing), Graphic Design (design and art production), and Illustration/Animation (advertising and editorial art).

This program will provide students with the opportunity to acquire knowledge and skills that are required for employment, Associate degree, or transfer in the related areas of design, illustration, printing, and computer graphics.

## Illustration/Animation Associate in Arts

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

Students who complete this program will be able to:

- 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

### Required Courses

- ART 80 DRAWING I **3 Units**
- GD 141 GRAPHIC RENDERING TECHNIQUES **3 Units**  
*or*
- ART 141 GRAPHIC RENDERING TECHNIQUES **3 Units**
- GD 144 TYPOGRAPHY **3 Units**
- GD 145 GRAPHIC ILLUSTRATION **3 Units**  
*or*
- ART 145 GRAPHIC ILLUSTRATION **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**
- GD 149 DIGITAL ILLUSTRATION **3 Units**
- GD 150 DIGITAL ANIMATION **3 Units \***
- GD 155 History of Animation **3 Units**
- GD 210 MOTION GRAPHICS **3 Units**

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

### Total Units for the Major: 27

### 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.

Suggested coursework not required for the major: ART 40, ART 85\*.

## Computer Graphics Associate in Science

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

### Required Courses

- GD 144 TYPOGRAPHY **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**
- GD 148 DIGITAL GRAPHIC DESIGN **3 Units** \*
- GD 149 DIGITAL ILLUSTRATION **3 Units**
- GD 150 DIGITAL ANIMATION **3 Units** \*
- GD 151 DIGITAL LAYOUT AND DESIGN **3 Units**
- GD 154 DIGITAL PRE-PRESS **3 Units** \*

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

### Total Units for the Major: 21

### Associate in Science Degree

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

### 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 Communications Associate in Science

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

Students who complete this program will be able to:

- 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

### Required Courses

- GC 63 INTRODUCTION TO SCREEN PRINTING **3 Units**  
*or*
- ART 63 INTRODUCTION TO SCREEN PRINTING **3 Units**
- GC 101 INTRODUCTION TO GRAPHIC COMMUNICATION **3 Units**
- GC 106 ADVANCED SCREEN PRINTING **3 Units** \*
- GC 195 GRAPHICS STUDIO **3 Units** \*
- GC 210 LETTERPRESS **3 Units**
- GD 144 TYPOGRAPHY **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**
- GD 151 DIGITAL LAYOUT AND DESIGN **3 Units**
- GD 154 DIGITAL PRE-PRESS **3 Units** \*

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

### Total Units for the Major: 27

### Associate in Science Degree

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

### 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: GD 140/ART 140, ART 141, ART 142.

## Graphic Design Associate in Science

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

### Required Courses

- GD 140 BEGINNING GRAPHIC DESIGN **3 Units**  
*or*
- ART 140 BEGINNING GRAPHIC DESIGN **3 Units**
- GD 142 PACKAGE DESIGN **3 Units**  
*or*
- ART 142 PACKAGE DESIGN **3 Units**
- GD 144 TYPOGRAPHY **3 Units**
- GD 145 GRAPHIC ILLUSTRATION **3 Units**  
*or*
- ART 145 GRAPHIC ILLUSTRATION **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**



- GD 149 DIGITAL ILLUSTRATION **3 Units**
- GD 154 DIGITAL PRE-PRESS **3 Units \***
- GD 200 PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS **3 Units**
- GD 240 INTERMEDIATE GRAPHIC DESIGN **3 Units**  
*or*
- ART 240 INTERMEDIATE GRAPHIC DESIGN **3 Units \***
- CWE 180 CO-OP-ED-GRAPHICS **1 Unit**

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

### **Total Units for the Major: 28**

### **Associate in Science Degree**

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

### **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 40, ART 41, ART 80, ART 85; GC 101.

## **Biomedical Illustration Certificate of Achievement**

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.

### **Program Student Learning Outcomes**

Students who complete this program will be able to:

- Evaluate, understand, and translate scientific data into visual communication
- Evaluate illustration methods and media to determine the most appropriate approach for the subject.
- Demonstrate a basic knowledge of anatomy and physiology.
- Apply traditional and digital illustration and drawing skills.
- Design, produce, and market scientific and medical illustrations to a broad audience.

### **Required Courses**

- GD 149 DIGITAL ILLUSTRATION **3 Units**
- ART 80 DRAWING I **3 Units**
- BIO 20 INTRODUCTION TO BIOLOGY **4 Units**
- GD 200 PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS **3 Units**
- GD 150 DIGITAL ANIMATION **3 Units \***
- ART 85 DRAWING FROM THE LIVE MODEL I **3 Units \***
- BIO 113 HUMAN ANATOMY AND PHYSIOLOGY **4 Units**
- GD 199 DIGITAL ILLUSTRATION II **3 Units \***
- GD 249 BIOMEDICAL ILLUSTRATION **3 Units \***

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

### **Total Units for the Certificate: 29**

## **Computer Graphics Certificate of Achievement**

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

### **Required Courses**

- GD 144 TYPOGRAPHY **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**
- GD 148 DIGITAL GRAPHIC DESIGN **3 Units \***
- GD 149 DIGITAL ILLUSTRATION **3 Units**
- GD 150 DIGITAL ANIMATION **3 Units \***
- GD 151 DIGITAL LAYOUT AND DESIGN **3 Units**
- GD 154 DIGITAL PRE-PRESS **3 Units \***

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

### **Total Units for the Certificate: 21**

## **Graphic Communications Certificate of Achievement**

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**

Students who complete this program will be able to:

- 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

### Required Courses

- GC 63 INTRODUCTION TO SCREEN PRINTING **3 Units**  
*or*
- ART 63 INTRODUCTION TO SCREEN PRINTING **3 Units**
- GC 101 INTRODUCTION TO GRAPHIC COMMUNICATION **3 Units**
- GC 106 ADVANCED SCREEN PRINTING **3 Units** \*
- GC 195 GRAPHICS STUDIO **3 Units** \*
- GC 210 LETTERPRESS **3 Units**
- GD 144 TYPOGRAPHY **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**
- GD 151 DIGITAL LAYOUT AND DESIGN **3 Units**
- GD 154 DIGITAL PRE-PRESS **3 Units** \*

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

**Total Units for the Certificate: 27**

## Graphic Design Certificate of Achievement

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

### Required Courses

- GD 140 BEGINNING GRAPHIC DESIGN **3 Units**  
*or*
- ART 140 BEGINNING GRAPHIC DESIGN **3 Units**
- GD 142 PACKAGE DESIGN **3 Units**  
*or*
- ART 142 PACKAGE DESIGN **3 Units**
- GD 144 TYPOGRAPHY **3 Units**
- GD 145 GRAPHIC ILLUSTRATION **3 Units**  
*or*
- ART 145 GRAPHIC ILLUSTRATION **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**
- GD 149 DIGITAL ILLUSTRATION **3 Units**
- GD 154 DIGITAL PRE-PRESS **3 Units** \*
- GD 200 PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS **3 Units**
- GD 240 INTERMEDIATE GRAPHIC DESIGN **3 Units**  
*or*

- ART 240 INTERMEDIATE GRAPHIC DESIGN **3 Units** \*
- CWE 180 CO-OP-ED-GRAPHICS **1 Unit**

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

**Total Units for the Certificate: 28**

## Illustration/Animation Certificate of Achievement

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

Students who complete this program will be able to:

- 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

### Required Courses

- ART 80 DRAWING I **3 Units**
- GD 141 GRAPHIC RENDERING TECHNIQUES **3 Units**  
*or*
- ART 141 GRAPHIC RENDERING TECHNIQUES **3 Units**
- GD 144 TYPOGRAPHY **3 Units**
- GD 145 GRAPHIC ILLUSTRATION **3 Units**  
*or*
- ART 145 GRAPHIC ILLUSTRATION **3 Units**
- GD 147 INTRODUCTION TO COMPUTER GRAPHICS **3 Units**
- GD 149 DIGITAL ILLUSTRATION **3 Units**
- GD 150 DIGITAL ANIMATION **3 Units** \*
- GD 155 - History of Animation **3 Units**
- GD 210 MOTION GRAPHICS **3 Units**

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

**Total Units for the Certificate: 27**

## Health Information Technology Associate of Science

The Health Information Technology (HIT) degree prepares 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. The HIT associate degree program comprises of the 49-51 unit 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 or 4 semesters to complete. A 2-year time frame for completion would require taking a full load each semester plus summers. The program provides 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 complete a health clearance and background check and carry professional liability insurance prior to commencing their directed practice.

To earn the Associate of Science (A.S.) Degree in Health Information Technology, students must complete BOTH HIT department requirements and General Education requirements. A previous Associate Degree, Bachelor's Degree or higher degree does not automatically meet general education requirements. All outside transcripts must be evaluated toward Saddleback College's requirements. In order to be eligible for the RHIT credential, you must earn the A.S. degree from Saddleback College.

A minimum grade of "C" in all courses in the major is required to receive the degree.

### **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

### **Competencies**

- Data Content, Structure, and Standards
- Data Governance
- Revenue Cycle Management/Billing/Clinical Coding
- Performance Improvement
- Clinical Documentation Improvement
- Release of Information
- Privacy and Security of Health Information
- Healthcare Information Technologies
- Healthcare statistics, trends, reporting, and registries

### **Program Student Learning Outcomes**

- Apply the knowledge of medical sciences (medical terminology, anatomy/physiology, pathology, and pharmacology) to accurately assign codes.
- Collect, maintain, and analyze health information for accuracy, completeness, and timeliness based upon compliance and regulation standards.
- Adhere to principles of legal, ethical, accreditation and certification standards as they relate to health information.
- Participate in planning, adoption, and the use of technology healthcare settings to maximize patient safety and efficiencies.
- Participate in analyzing and reporting health data for the performance improvement, research, and revenue cycle management.
- Demonstrate the ability to work effectively as an individual and collaboratively in a group to resolve health information management challenges in a dynamic and innovative healthcare environment.

### **Required Courses**

- HSC 104 MEDICAL TERMINOLOGY **3 Units**
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**  
*or*
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**
- HIT 100 HEALTH INFORMATION SCIENCE **2 Units \***
- HSC 107 HUMAN BODY FUNDAMENTALS **3 Units \***  
*or*
- BIO 113 HUMAN ANATOMY AND PHYSIOLOGY **4 Units**
- HSC 106 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION **3 Units**
- HIT 101 ALTERNATIVE HEALTHCARE DELIVERY SYSTEMS **2 Units \***
- HIT 111 HEALTHCARE INFORMATION TECHNOLOGIES (HCIT) **3 Units \***
- HSC 108 DISEASE PROCESSES FOR THE HEALTH SCIENCES **3 Units \***
- HIT 109 ICD DIAGNOSTIC CODING **3 Units \***
- HIT 110 ICD PROCEDURE CODING **2 Units \***
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units \***  
*or*
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units \***
- HIT 112 REPORTING HEALTHCARE DATA **2 Units \***
- HIT 119 MANAGEMENT OF RESOURCES IN HEALTHCARE **3 Units \***
- HIT 116 PERFORMANCE IMPROVEMENT IN HEALTHCARE **3 Units \***
- HIT 115 CPT AND AMBULATORY CARE CODING **3 Units \***
- HIT 122 REIMBURSEMENT METHODOLOGIES **3 Units \***
- HIT 130 DIRECTED PRACTICE **4 Units \***

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

### **Total Units for the Major: 49-51**

### **Associate of Science Degree**

Complete a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate of Science 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.

### **Accreditation**

The Health Information Technology Program (HIT) is accredited by the Commission on Accreditation for Health Informatics and Information Management Education.

To contact CAHIIM  
233 N. Michigan Ave 21st Floor  
Chicago, IL 60602-5800  
(312) 233-1100  
Fax (312) 223-1948  
[info@Cahiim.org](mailto:info@Cahiim.org)

## Health Sciences Associate in Arts

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
- HSC 201, 217\*, 222, 223\*, 226\*, 227\*, 228, 291
- MA 211A/B, 212A/B, 213A/B, 214B, 217A\*/B\*/C\*, 218B
- N 160\*, 161, 162\*, 165, 170\*, 171\*, 172\*, 173\*, 174\*, 176\*, 202\*, 238\*, 245\*, 263, 264\*, 265\*
- PHLB 240\*
- PM 220\*, 230\*, 240\*

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

### Total Units for the Major: 18

### 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.

## Healthcare Technology Optimization Specialist Certificate of Achievement

This certificate program prepares the student demonstrate proficiency in certain health IT workforce roles integral to the implementation and management of electronic health information. It prepares for employment as a healthcare optimization specialist in an acute care hospital, clinic or physician's office, long-term care facility, and other health care settings. It helps professionals upgrade their skills to coordinate interdepartmental communications and provide the link between health and IT. Healthcare optimization specialists manage the documentation process, manage data life cycle, abide by standards guidelines to facilitate workflows, reimbursement, analyze patient outcomes, and medical research. The HCTOS certificate of achievement prepares students to take the national certification examination to become a Certified Health Technology Specialist (CHTS) offered by American Health Information Association (AHIMA). This program provides training through didactic instruction and labs. Facilities employing HCTOS professionals include hospitals, ambulatory care centers, physician offices, long-term care facilities, and insurance firms.

### Occupations/Fields that the program will prepare the student to enter:

- Revenue Cycle Management
- Health Data Management
- Health Data Analyst
- Healthcare Optimization
- Practice Management
- Health Data Education
- Medical office administration
- Quality Improvement analyst
- Help Desk

### Competencies

- Coordinate interdepartmental communications
- Manage data life cycle
- Manage documentation processes
- Maximize software applications
- Perform productivity measures in the healthcare environment
- Participate in project management
- Manage administrative functions
- Adhere to quality control protocols
- Computer and other digital applications and in health care
- Use health information exchange standards
- Abide by standards, regulations, and guidelines

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Use appropriate medical terminology
- Coordinate interdepartmental communications
- Utilize technology in the healthcare environment
- Use business intelligence tools for analysis and reporting
- Maintain compliance with regulatory requirements, standards and guidelines
- Assess healthcare workflows

## Required Courses

- HSC 104 MEDICAL TERMINOLOGY **3 Units**
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**  
*or*
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**
- MA 280 HEALTHCARE ORGANIZATION PRACTICES **3 Units**  
*or*
- HIT 100 HEALTH INFORMATION SCIENCE **2 Units \***
- CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL **3 Units**
- HIT 111 HEALTHCARE INFORMATION TECHNOLOGIES (HCIT) **3 Units \***
- CIMA 288 DATABASE REPORTING **3.5 Units**

**Total Units for the Major: 17.5-19.5**

## Medical Coding Specialist Certificate of Achievement

This certificate program prepares the student for employment as a medical coder and revenue cycle specialist in an acute care hospital, clinic or physician's office, long-term care facility, and other health care settings. Coders review medical records, adhere to current coding guidelines to apply accurate codes for medical diagnoses and procedures to facilitate reimbursement, analyze patient outcomes, and medical research. The Medical Coding Specialist Certificate of Achievement prepares students to take the national certification examination to become a Certified Coding Associate (CCA) offered by American Health Information Association (AHIMA) and the Certified Professional Coder (CPC) exam through the American Academy of Professional Coders (AAPC). This program provides training through didactic instruction and labs. Facilities employing coding professionals include hospitals, ambulatory care centers, physician offices, long-term care facilities, and insurance firms.

## Occupations

- Coding Specialist
- Clinical Documentation Specialist
- HIM Revenue Auditor
- Revenue Cycle Manager
- Coding Manager
- Reimbursement and Insurance Manager

## Competencies

- Patient clinical record content, both inpatient and outpatient
- Physiological changes and altered functions in the human body resulting from disease processes.
- ICD, CPT/HCPCS diagnostic and procedural coding systems, and common coding errors.
- Diagnosis Related Groups (DRGs), Resource-Based Relative Value Scale (RBRVS), Ambulatory Payment Classifications (APCs), components of fee setting, optimizing reimbursement based on insurance specifications.
- Basic pharmacological terminology and concepts, drug categories and their uses, mechanisms of drug action, dosage forms and routes of administration.
- Data quality impact and characteristics, including validity, reliability, completeness, legibility, currency, timeliness and accessibility.
- Encoders and groupers, their benefits and limitations.
- Legal aspects of health care, confidentiality requirements.
- Computer applications and topics related to computers in health care.

## Program Student Learning Outcomes

Students who complete this program will be able to:

- Use and maintain electronic applications and work processes to support clinical classification and coding.
- Apply diagnosis/procedure codes according to current nomenclature and guidelines.
- Ensure accuracy of diagnostic/procedural groupings.
- Resolve discrepancies between coded data and supporting documentation.

## Required Courses

- HSC 104 MEDICAL TERMINOLOGY **3 Units**
- HIT 100 HEALTH INFORMATION SCIENCE **2 Units**
- HSC 107 HUMAN BODY FUNDAMENTALS **3 Units \***
- HSC 106 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION **3 Units**
- CIM 10 INTRODUCTION TO INFORMATION SYSTEMS **3 Units**  
*or*
- CIM 1 COMPUTER INFORMATION SYSTEMS **4 Units**
- HSC 108 DISEASE PROCESSES FOR THE HEALTH SCIENCES **3 Units \***
- HIT 109 ICD DIAGNOSTIC CODING **3 Units \***
- HIT 110 ICD PROCEDURE CODING **2 Units \***
- HIT 115 CPT AND AMBULATORY CARE CODING **3 Units \***
- HIT 122 REIMBURSEMENT METHODOLOGIES **3 Units**
- HIT 222 ADVANCED CODING APPLICATIONS **4 Units \***

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

**Total Units for the Certificate: 32-33**

## History Associate in Arts

The curriculum in the History program is designed to provide the transfer student with an understanding of the diversity of the human experience and the Historical processes that have shaped individuals and communities throughout the world. It fosters critical thinking and offers the opportunity to achieve an Associate in Arts (AA) degree in History by providing the necessary breadth in the field, an introduction to the methods used in the study of History, and the ability to complete both major preparatory coursework and courses required for general education. While a baccalaureate or higher degree is recommended for those considering this major, earning an Associate degree may support entry-level positions such as: Museum and Historical Organizations, Cultural Resources Centers, or Legislative Support Staff Worker.

## 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

### Required Courses

- HIST 4 WORLD HISTORY TO 1500 **3 Units**
- HIST 5 WORLD HISTORY SINCE 1500 **3 Units**
- HIST 16 HISTORY OF THE UNITED STATES TO 1876 **3 Units**
- HIST 17 HISTORY OF THE UNITED STATES SINCE 1876 **3 Units**
- Select from Restricted Electives **6 Units**

### Total Units for the Major: 18

### Restricted Electives

- HIST 11 PERSPECTIVES OF PEACE STUDIES **3 Units**
- HIST 12 REVOLUTIONS AND REVOLTS **3 Units**
- HIST 15 THE VIETNAM WAR **3 Units**
- HIST 19 UNITED STATES SINCE 1945 **3 Units**
- HIST 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**
- HIST 21 WOMEN IN UNITED STATES HISTORY - A MULTICULTURAL PERSPECTIVE **3 Units**
- HIST 27 LATIN AMERICA - PRE-EUROPEAN TO INDEPENDENT NATIONHOOD **3 Units**
- HIST 28 LATIN AMERICA - 1800 TO THE PRESENT **3 Units**
- HIST 29 FILM AND HISTORY IN LATIN AMERICA **3 Units**
- HIST 30 HISTORY OF MEXICO **3 Units**
- HIST 32 CALIFORNIA HISTORY **3 Units**
- HIST 33 CHICANO - LATINO AMERICAN HISTORY **3 Units**
- HIST 41 HISTORY OF ENGLAND SINCE 1688 **3 Units**
- HIST 61 HISTORY AND POLITICS OF RUSSIA-SOVIET PERIOD TO THE PRESENT **3 Units**
- HIST 62 EUROPEAN HISTORY TO 1650 **3 Units**
- HIST 63 EUROPEAN HISTORY SINCE 1650 **3 Units**
- HIST 70 HISTORY OF ASIA TO 1800 **3 Units**
- HIST 71 HISTORY OF ASIA SINCE 1800 **3 Units**
- HIST 72 HISTORY OF CHINA **3 Units**
- HIST 74 HISTORY OF THE MIDDLE EAST TO 1800 **3 Units**
- HIST 75 HISTORY OF THE MODERN MIDDLE EAST **3 Units**
- HIST 80 INTRODUCTION TO CONTEMPORARY AFRICA **3 Units**
- HIST 81 AFRICAN AMERICAN HISTORY **3 Units**
- ES 1 MULTICULTURAL EXPERIENCES IN THE UNITED STATES **3 Units**
- ES 3 INTRODUCTION TO CHICANA(O) AND LATINA(O) CULTURES **3 Units**

### 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.

## History

### Associate in Arts for Transfer

The curriculum in the History program is designed to provide the transfer student the opportunity to achieve an Associate for Transfer (AA-T) degree in History 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.

- 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 Intersegmental General Education Transfer Curriculum (IGETC) or 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.
- Obtainment of a minimum grade point average of 2.0. Students must earn a "C" or better in all courses required for the major or area of emphasis.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Understand 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
- Think critically about 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
- Understand the difference between opinions and substantiated scholarly claims
- 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

### Required Courses

- HIST 16 HISTORY OF THE UNITED STATES TO 1876 **3 Units**
- HIST 17 HISTORY OF THE UNITED STATES SINCE 1876 **3 Units**

### Group A: (6 units)

- HIST 4 WORLD HISTORY TO 1500 **3 Units**
- HIST 5 WORLD HISTORY SINCE 1500 **3 Units**



**Group B: Select one course from each area (6 units)****Area 1**

- HIST 21 WOMEN IN UNITED STATES HISTORY - A MULTICULTURAL PERSPECTIVE **3 Units**
- HIST 27 LATIN AMERICA - PRE-EUROPEAN TO INDEPENDENT NATIONHOOD **3 Units**
- HIST 28 LATIN AMERICA - 1800 TO THE PRESENT **3 Units**
- HIST 29 FILM AND HISTORY IN LATIN AMERICA **3 Units**
- HIST 33 CHICANO - LATINO AMERICAN HISTORY **3 Units**
- HIST 62 EUROPEAN HISTORY TO 1650 **3 Units**
- HIST 70 HISTORY OF ASIA TO 1800 **3 Units**
- HIST 71 HISTORY OF ASIA SINCE 1800 **3 Units**
- HIST 72 HISTORY OF CHINA **3 Units**
- HIST 74 HISTORY OF THE MIDDLE EAST TO 1800 **3 Units**
- HIST 80 INTRODUCTION TO CONTEMPORARY AFRICA **3 Units**
- HIST 81 AFRICAN AMERICAN HISTORY **3 Units**

**Area 2**

- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**
- ANTH 3 CULTURE AND LANGUAGE **3 Units**
- ANTH 5 ANTHROPOLOGY OF LATIN AMERICA-CULTURE, IDENTITY, AND POWER **3 Units**
- HIST 11 PERSPECTIVES OF PEACE STUDIES **3 Units**
- HIST 15 THE VIETNAM WAR **3 Units**
- HIST 19 UNITED STATES SINCE 1945 **3 Units**
- HIST 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**
- HIST 30 HISTORY OF MEXICO **3 Units**
- HIST 32 CALIFORNIA HISTORY **3 Units**
- HIST 61 HISTORY AND POLITICS OF RUSSIA-SOVIET PERIOD TO THE PRESENT **3 Units**
- HIST 63 EUROPEAN HISTORY SINCE 1650 **3 Units**
- HIST 75 INTRODUCTION TO THE CONTEMPORARY MIDDLE EAST **3 Units**
- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**
- SOC 2 SOCIAL PROBLEMS **3 Units**

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

**Total Units for the Major: 18**

## Horticulture Associate in Science

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.

**Required Courses**

- HORT 10 PLANT MATERIALS - HERBACEOUS PLANTS **3 Units**
- HORT 11 PLANT MATERIALS - TREES AND SHRUBS **3 Units**
- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**
- HORT 112 PLANT PROPAGATION **3 Units**
- HORT 113 SOILS AND FERTILIZERS **3 Units**
- HORT 120 INTEGRATED PEST MANAGEMENT **4 units**
- Select one course from each Group **4-6 Units**

**Group I**

- HORT 7 INTRODUCTION TO LANDSCAPE DESIGN **3 Units**
- HORT 115 HISTORY OF LANDSCAPE DESIGN **3 Units**

**Group II**

- CWE 180 COOPERATIVE WORK EXPERIENCE: Horticulture **1 Unit** †
- HORT 116 IRRIGATION SYSTEMS **3 Units**
- HORT 166 ORNAMENTAL NATIVE PLANTS **3 Units**
- HORT 216 ADVANCED IRRIGATION DESIGN **3 Units\***

\*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.

**Total Units for the Major: 24-26****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 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.

Suggested coursework not required for the major: BUS 1, BUS 120, BUS 137; CIM 1; HORT 208, 209; SPAN 1.

## Landscape Design Associate in Science

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.

### Required Courses

- HORT 7 INTRODUCTION TO LANDSCAPE DESIGN **3 Units**
- HORT 10 PLANT MATERIALS-HERBACEOUS PLANTS **3 Units**
- HORT 11 PLANT MATERIALS-TREES AND SHRUBS **3 Units**
- HORT 106 LANDSCAPE CAD - AUTOCAD FUNDAMENTALS **3 Units**
- HORT 109 INTRODUCTION TO PLANT DESIGNING **3 Units**
- HORT 116 IRRIGATION DESIGN FUNDAMENTALS **3 Units**
- HORT 130 HARDSCAPE AND CONSTRUCTION MATERIALS FUNDAMENTALS **1.5 Units**
- Select one course from each Group **2.5 - 7 Units**

**Total Units for the Major: 23.5-28**

#### Group I

- CWE 180 - COOPERATIVE WORK EXPERIENCE: HORTICULTURE **1 Unit** \*†
- HORT 20 INTRODUCTION TO HORTICULTURE **4 Units**
- HORT 113 SOILS AND FERTILIZERS **3 Units**
- HORT 166 ORNAMENTAL NATIVE PLANTS IDENTIFICATION **3 Units**

#### Group II

- HORT 115 HISTORY OF LANDSCAPE DESIGN **3 Units**
  - HORT 201 PROFESSIONAL PRACTICES OF RESIDENTIAL LANDSCAPE DESIGN **3 Units** \*
  - HORT 216 ADVANCED IRRIGATION DESIGN **3 Units**
- \*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 Landscape Design Certificate Program.

### 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 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.

Suggested coursework not required for the major: BUS 1, BUS 120, BUS 137; HORT 113, HORT 115; SPAN 1\*.

## Horticulture Certificate of Achievement

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.

### Required Courses

- HORT 10 PLANT MATERIALS-HERBACEOUS PLANTS **3 Units**
- HORT 11 PLANT MATERIALS-TREES AND SHRUBS **3 Units**
- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**
- HORT 112 PLANT PROPAGATION **3 Units**
- HORT 113 SOILS AND FERTILIZERS **3 Units**
- HORT 120 INTEGRATED PEST MANAGEMENT **4 Units**
- Select one course from each Group **4-6 Units**

#### Group I

- HORT 7 INTRODUCTION TO LANDSCAPE DESIGN **3 Units**
- HORT 115 HISTORY OF LANDSCAPE DESIGN - ANCIENT THROUGH 19TH CENTURY **3 Units**
- HORT 145 PLANTING DESIGN WITH NATIVE PLANTS **3 Units**

#### Group II

- CWE 180 CO-OP-ED-HORT & LANDSCAPE **1 Unit** †
- HORT 116 IRRIGATION DESIGN FUNDAMENTALS **3 Units**
- HORT 166 ORNAMENTAL NATIVE PLANTS IDENTIFICATION **3 Units**
- HORT 216 IRRIGATION PLANS AND DETAILS WITH CAD **3 Units** \*

\*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.

**Total Units for the Certificate: 24-26**

## Landscape Design Certificate of Achievement

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.

### Required Courses

- HORT 7 INTRODUCTION TO LANDSCAPE DESIGN **3 Units**
- HORT 10 PLANT MATERIALS-HERBACEOUS PLANTS **3 Units**
- HORT 11 PLANT MATERIALS-TREES AND SHRUBS **3 Units**
- HORT 106 LANDSCAPE CAD - AUTOCAD FUNDAMENTALS **3 Units**
- HORT 109 INTRODUCTION TO PLANTING DESIGN **3 Units**
- HORT 116 IRRIGATION DESIGN FUNDAMENTALS **3 Units**

- HORT 130 HARDSCAPE AND CONSTRUCTION MATERIALS FUNDAMENTALS **1.5 Units**
- Select one course from each Group **2.5-7 Units**

**Total Units for the Certificate: 21.5-26.5**

### Group I

- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**
- HORT 113 SOILS AND FERTILIZERS **3 Units**
- HORT 138 THE SUSTAINABLE LANDSCAPE **3 Units**
- HORT 140 LANDSCAPE MANAGEMENT AND CONSTRUCTION **3 Units**
- HORT 141 HARDSCAPE AND CONSTRUCTION DETAILS WITH CAD **2 Units \***
- HORT 145 PLANTING DESIGN WITH NATIVE PLANTS **3 Units**
- HORT 166 ORNAMENTAL NATIVE PLANTS IDENTIFICATION **3 Units**
- CWE 180 COOPERATIVE WORK EXPERIENCE: HORTICULTURE AND LANDSCAPE **1 Unit\*†**

### Group II

- HORT 115 HISTORY OF LANDSCAPE DESIGN **3 Units**
- HORT 201 PROFESSIONAL PRACTICES IN DESIGN PROFESSIONS **3 Units \***
- HORT 216 IRRIGATION PLANS AND DETAILS WITH CAD **3 Units \***
- HORT 139 CONTEMPORARY LANDSCAPE DESIGN TRENDS **3 Units**
- HORT 142 INTRODUCTION TO DESIGN TECHNOLOGY **1 Unit**
- HORT 143 LANDSCAPE CAD MANAGEMENT WITH DESIGN PROJECTS **3 Units \***
- HORT 144 LICENSURE FOR THE LANDSCAPE CONTRACTOR **1.5 Units**

\*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 Landscape Design Certificate Program.

## General Horticulture Occupational Skills Award

The General Horticulture Occupational Skills Award encourages students to master skills required to propagate and maintain healthy plants, including the use of soils and fertilizers.

### Required Courses

- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**
- HORT 112 PLANT PROPAGATION **3 Units**
- HORT 113 SOILS AND FERTILIZERS **3 Units**

**Total Units for the Award: 10**

## 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.

### Required Courses

- HORT 7 INTRODUCTION TO LANDSCAPE DESIGN **3 Units**
- HORT 109 INTRODUCTION TO PLANTING DESIGN **3 Units**
- HORT 130 HARDSCAPE AND CONSTRUCTION MATERIALS FUNDAMENTALS **1.5 Units**

**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.

### Required Courses

- HORT 10 PLANT MATERIALS-HERBACEOUS PLANTS **3 Units**
- HORT 11 PLANT MATERIALS-TREES AND SHRUBS **3 Units**
- HORT 166 ORNAMENTAL NATIVE PLANTS IDENTIFICATION **3 Units**

**Total Units for the Award: 9**

## 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.

## Alcohol and Drug Studies Associate in Science

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.

### Core Courses

- HS 100 HUMAN SERVICES IN A CHANGING SOCIETY **3 Units**
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 170 ALCOHOL AND OTHER DRUGS IN OUR SOCIETY **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

### Total Core Units for the Major: 15

### Required Courses

- HS 110 FIELD INSTRUCTION AND SEMINAR I **3.5 Units \***
- HS 150 FIELD INSTRUCTION AND SEMINAR II **3.5 Units \***
- HS 171 SUBSTANCE ABUSE - INTERVENTION, TREATMENT AND RECOVERY **3 Units**
- HS 172 PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS **3 Units \***
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 176 CO-OCCURRING DISORDERS **3 Units \***
- Select from Restricted Electives **3 Units**

### Total Units for the Major: 37

### Restricted Electives

- HS 128 COMMUNITY-BASED CORRECTIONS **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 175 SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION **3 Units**
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**
- HS 182 SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS **3 Units \***
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**

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

### Associate in Science Degree

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

### 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 Associate in Science

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

- Expound 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.

### Core Courses

- HS 100 INTRODUCTION TO HUMAN SERVICES **3 Units \***
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 170 ALCOHOL AND OTHER DRUGS IN OUR SOCIETY **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

### Total Core Units for the Major: 15

### Required Courses

- HS 37 INTRODUCTION TO CRIMINOLOGY **3 Units**
- HS 110 FIELD INSTRUCTION AND SEMINAR I **3.5 Units \***
- HS 119 INTRODUCTION TO CRIMINAL JUSTICE SYSTEM **3 Units**
- HS 128 COMMUNITY-BASED CORRECTIONS **3 Units**
- HS 150 FIELD INSTRUCTION AND SEMINAR II **3.5 Units \***
- HS 187 JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION **3 Units**
- Select from Restricted Electives **3 Units**

### Total Units for the Major: 37

### Restricted Electives

- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 175 SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION **3 Units**



- HS 176 CO-OCCURRING DISORDERS **3 Units** \*
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**
- HS 182 SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS **3 Units** \*
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**

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

### Associate in Science Degree

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

### 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 Associate in Science

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

- HS 100 INTRODUCTION TO HUMAN SERVICES **3 Units** \*
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 170 ALCOHOL AND OTHER DRUGS IN OUR SOCIETY **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

### Total Core Units for the Major: 15 Units

### Required Courses

- HS 110 FIELD INSTRUCTION AND SEMINAR I **3.5 Units** \*
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 150 FIELD INSTRUCTION AND SEMINAR II **3.5 Units** \*

- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 176 CO-OCCURRING DISORDERS **3 Units** \*
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**

### Total Units for the Major: 37 Units

### Restricted Electives

- APSY 150 HELPING RELATIONSHIPS **3 Units**
- HS 171 SUBSTANCE ABUSE - INTERVENTION, TREATMENT AND RECOVERY **3 Units**
- HS 172 PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS **3 Units**
- HS 175 SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION **3 Units**
- HS 187 JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION **3 Units**
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**
- PSYC 125 PSYCHOLOGY OF AGING **3 Units**
- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**
- SOC 2 SOCIAL PROBLEMS **3 Units**
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**
- SOC 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**

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

### Associate in Science Degree

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

### 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 Associate in Science

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.



## Required Courses

- CWE 180 COOPERATIVE WORK EXPERIENCE - MENTAL HEALTH **2 Units** \*†
- HS 100 INTRODUCTION TO HUMAN SERVICES **3 Units** \*
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 176 CO-OCCURRING DISORDERS **3 Units** \*
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

\*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: 29

## Associate in Science Degree

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

## 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.

## Alcohol and Drug Studies Certificate of Achievement

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.

## Core Courses

- HS 100 HUMAN SERVICES IN A CHANGING SOCIETY **3 Units**
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 170 ALCOHOL AND OTHER DRUGS IN OUR SOCIETY **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

## Total Core Units for the Certificate: 15

## Required Courses

- HS 110 FIELD INSTRUCTION AND SEMINAR I **3.5 Units** \*
- HS 150 FIELD INSTRUCTION AND SEMINAR II **3.5 Units** \*
- HS 171 SUBSTANCE ABUSE - INTERVENTION, TREATMENT AND RECOVERY **3 Units**
- HS 172 PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS **3 Units** \*
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 176 CO-OCCURRING DISORDERS **3 Units** \*
- Select from Restricted Electives **3 Units**

## Total Units for the Certificate: 37

## Restricted Electives

- HS 128 COMMUNITY-BASED CORRECTIONS **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 175 SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION **3 Units**
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**
- HS 182 SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS **3 Units** \*
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**

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

## Community Based Corrections Certificate of Achievement

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

- Expound 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.

### Core Courses

- HS 100 INTRODUCTION TO HUMAN SERVICES **3 Units** \*
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 170 ALCOHOL AND OTHER DRUGS IN OUR SOCIETY **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

**Total Core Units for the Certificate: 15**

### Required Courses

- HS 37 INTRODUCTION TO CRIMINOLOGY **3 Units**
- HS 110 FIELD INSTRUCTION AND SEMINAR I **3.5 Units** \*
- HS 119 INTRODUCTION TO CRIMINAL JUSTICE SYSTEM **3 Units**
- HS 128 COMMUNITY-BASED CORRECTIONS **3 Units**
- HS 150 FIELD INSTRUCTION AND SEMINAR II **3.5 Units** \*
- HS 187 JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION **3 Units**
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 37**

### Restricted Electives

- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 175 SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION **3 Units**
- HS 176 CO-OCCURRING DISORDERS **3 Units** \*
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**
- HS 182 SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS **3 Units** \*
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**

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

## Human Services Generalist Certificate of Achievement

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

- HS 100 INTRODUCTION TO HUMAN SERVICES **3 Units** \*
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 170 ALCOHOL AND OTHER DRUGS IN OUR SOCIETY **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

**Total Core Units for the Certificate: 15**

### Required Courses

- HS 110 FIELD INSTRUCTION AND SEMINAR I **3.5 Units** \*
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 150 FIELD INSTRUCTION AND SEMINAR II **3.5 Units** \*
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 176 CO-OCCURRING DISORDERS **3 Units** \*
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**
- Select from Restricted Electives **3 Units**

**Total Units for the Certificate: 37**

### Restricted Electives

- APSY 150 Helping Relationships **3 Units**
- HS 171 SUBSTANCE ABUSE - INTERVENTION, TREATMENT AND RECOVERY **3 Units**
- HS 172 PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS **3 Units** \*
- HS 175 SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION **3 Units**
- HS 187 JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION **3 Units**
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**
- PSYC 125 PSYCHOLOGY OF AGING **3 Units** \*
- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**
- SOC 2 SOCIAL PROBLEMS **3 Units**
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**
- SOC 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**

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

## Mental Health Worker Certificate of Achievement

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.

## Required Courses

- CWE 180 COOPERATIVE WORK EXPERIENCE - MENTAL HEALTH **2 Units** \*†
- HS 100 INTRODUCTION TO HUMAN SERVICES **3 Units** \*
- HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT **3 Units**
- HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES **3 Units**
- HS 140 GROUP LEADERSHIP AND GROUP PROCESS **3 Units**
- HS 174 CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL **3 Units**
- HS 176 CO-OCCURRING DISORDERS **3 Units** \*
- HS 177 FAMILY DYNAMICS OF ADDICTION AND ABUSE **3 Units**
- HS 220 BENEFITS AND ENTITLEMENT **3 Units**
- HS 285 ETHICAL ISSUES AND CLIENT'S RIGHTS **3 Units**

\*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 Certificate: 29**

## 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) or 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.

## Required Courses

- HS 181 INTRODUCTION TO EATING DISORDERS **3 Units**
- HS 184 MEDICAL ASPECTS OF EATING DISORDERS **3 Units** \*
- HS 185 THE BACKGROUND AND TREATMENT OF EATING DISORDERS **3 Units** \*

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

**Total Units for this Award: 9**

## Humanities Associate in Arts

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.

**A minimum of 18 units from the following:**

- International Language level 3 or 4 **5 Units**
- HIST 4 WORLD HISTORY to 1750 **3 Units**
- HIST 5 WORLD HISTORY from 1750 **3 Units**
- HUM 1 INTRODUCTION TO HUMANITIES **3 Units** \*
- HUM 2 ORIGINS OF WESTERN CULTURE IN LITERATURE **3 Units** \*
- HUM 3 THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE **3 Units** \*
- HUM 10A CULTURE, SCIENCE, AND SOCIETY I **3 Units** \*
- HUM 10B CULTURE, SCIENCE, AND SOCIETY II **3 Units** \*
- HUM 21 THE SEARCH FOR MEANING - IDEAS OF SELF ACROSS CULTURES **3 Units** \*
- HUM 22 GODS, CLOCKS, AND VISIONS **3 Units** \*
- HUM 25 PLANET EARTH - CONTEMPORARY ISSUES AND CONTROVERSIES **3 Units** \*
- PHIL 1 INTRODUCTION TO PHILOSOPHY **3 Units** \*

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

**Total Units for the Major: 18**

## 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.

## 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.

### Interior Design Assistant Associate in Science

The Interior Design Associate in Science Degree provides the student with a comprehensive academic foundation to pursue multiple interior design careers as an Interior Design Assistant. The course requirements are aligned with the California Council for Interior Design Certification (CCIDC) requires a minimum of 40 semester units of interior design education to take the Interior Design Exam (IDEX). The combination of the major units and general education required for this degree may take longer than two years to complete. Students will have opportunities to develop skills in drafting, color theory, product knowledge, communication, historical, professional and CAD drafting. The educational standards within the Associate in Science Degree can lead to minimum preparation as a Certified Interior Designer (CID) in the state of California and preparation for transfer to Interior Design bachelor's degree programs.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate intermediate skills in fundamental drafting, color theory, lighting, textiles, and product knowledge.
- Use professional skills and effective communication techniques.
- Demonstrate space planning, graphic illustration and digital visualization techniques required for Interior Design Assistant positions in the interior design field.

#### Required Courses

- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**
- ID 111 INTERIOR DESIGN STUDIO I **3 Units \***
- ID 112 BEGINNING DRAFTING FOR INTERIORS **3 Units**
- ID 114 APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN **3 Units**
- ID 115 CAD FOR INTERIOR DESIGN **3 Units \***
- ID 116 INTERIOR MATERIALS AND PRODUCTS **3 Units**
- ID 122 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I **3 Units**
- ID 125 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II **3 Units**
- FASH 31 TEXTILES **3 Units**
- ARCH 124A ARCHITECTURAL DRAWING I **4 Units**
- ID 121 SPACE PLANNING **3 Units**
- ID 123 INTERIOR DESIGN ILLUSTRATION **3 Units \***
- ID 126 INTERIOR DESIGN STUDIO II **3 Units \***
- ID 127 FUNDAMENTALS OF LIGHTING **3 Units \***
- ID 131 DIGITAL VISUALIZATION FOR INTERIOR DESIGN **3 Units \***

**Total Units for the Major: 46**

#### Associate in Science Degree

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

## 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.

### Level I - Interiors Merchandising Certificate of Achievement

The Interior Merchandising level provides the student with a short-term certificate program leading to entry level employment in merchandising or sales in interior design fields. This certificate provides students with foundational skills curriculum in interior design, drafting for interiors, use of computer drafting programs, color and design theory, and history of interior architecture and furnishings. This level provides the foundation for more advanced certificates. Entry level positions that need the skills learned by students who complete this certificate include retail sales in home and/or furniture stores, interior decorating on a limited scope, and colorists in paint stores.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate fundamental drafting skills, knowledge of color theory, career paths, history of furniture, 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.

#### Required Courses

- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**
- ID 111 INTERIOR DESIGN STUDIO I **3 Units \***
- ID 112 BEGINNING DRAFTING FOR INTERIORS **3 Units**
- ID 114 APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN **3 Units**
- ID 115 CAD FOR INTERIOR DESIGN **3 Units \***
- ID 116 INTERIOR MATERIALS AND PRODUCTS **3 Units**
- ID 122 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I **3 Units**
- ID 125 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II **3 Units**

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

**Associate Degree will be awarded for Level II only.**

**Total Units for the Certificate: 24**

### Level II - Interior Design Assistant Certificate of Achievement

The Interior Design Assistant Level II provides the student with a short-term certificate program that meets the educational standards for minimum preparation as a Certified Interior Designer (CID), and employment as a Design Assistant. It includes fundamental curriculum in interior design, drafting for interiors, use of computer drafting programs, color and design theory, and history of interior architecture and furnishings. Additionally students develop skills in design illustration, fundamentals of lighting, digital visualization and textiles. Positions that need the skills learned by students who complete this certificate include Interior Design Assistant, or positions in the interior design industry as part of a larger design team.



### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate intermediate skills in fundamental drafting, color theory, lighting, textiles, and product knowledge.
- Use professional skills and effective communication techniques.
- Demonstrate space planning, graphic illustration and digital visualization techniques required for Interior Design Assistant positions in the interior design field.

### Required Courses

- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**
- ID 111 INTERIOR DESIGN STUDIO I **3 Units \***
- ID 112 BEGINNING DRAFTING FOR INTERIORS **3 Units**
- ID 114 APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN **3 Units**
- ID 115 CAD FOR INTERIOR DESIGN **3 Units \***
- ID 116 INTERIOR MATERIALS AND PRODUCTS **3 Units**
- ID 122 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I **3 Units**
- ID 125 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II **3 Units**
- FASH 31 TEXTILES **3 Units**
- ARCH 124A ARCHITECTURAL DRAWING I **4 Units**
- ID 121 SPACE PLANNING **3 Units \***
- ID 123 INTERIOR DESIGN ILLUSTRATION **3 Units \***
- ID 126 INTERIOR DESIGN STUDIO II **3 Units \***
- ID 127 FUNDAMENTALS OF LIGHTING **3 Units \***
- ID 131 DIGITAL VISUALIZATION FOR INTERIOR DESIGN **3 Units \***

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

**Associate Degree will be awarded for Level II only.**

**Total Units for the Certificate: 46**

### Level III - Interior Design Professional Certificate of Achievement

The Interior Design Professional Level III meets the educational standards that can lead to minimum preparation for NCIDQ certification and employment as a professional Interior Designer. Positions that need the skills learned by students who complete this certificate include Interior Design Professional, or part of larger design teams with architects and builders.

### 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.

### Required Courses

- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**
- ID 111 INTERIOR DESIGN STUDIO I **3 Units \***
- ID 112 BEGINNING DRAFTING FOR INTERIORS **3 Units**

- ID 114 APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN **3 Units**
- ID 115 CAD FOR INTERIOR DESIGN **3 Units \***
- ID 116 INTERIOR MATERIALS AND PRODUCTS **3 Units**
- ID 122 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I **3 Units**
- ID 125 HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II **3 Units**
- FASH 31 TEXTILES **3 Units**
- ARCH 124A ARCHITECTURAL DRAWING I **4 Units**
- ID 121 SPACE PLANNING **3 Units \***
- ID 123 INTERIOR DESIGN ILLUSTRATION **3 Units \***
- ID 126 INTERIOR DESIGN STUDIO II **3 Units \***
- ID 127 FUNDAMENTALS OF LIGHTING **3 Units \***
- ID 131 DIGITAL VISUALIZATION FOR INTERIOR DESIGN **3 Units \***
- ID 128 BUSINESS AND PROFESSIONAL PRACTICE FOR INTERIOR DESIGN **3 Units \***
- ID 129 INTERIOR DESIGN INTERNSHIP **1 Unit**
- ID 132 CODES AND SPECIFICATIONS FOR INTERIOR DESIGN **3 Units**
- ID 133 RENDERING AND RAPID VISUALIZATION FOR INTERIOR DESIGN **3 Units \***
- ID 134 ADVANCED CAD FOR INTERIOR DESIGN **3 Units \***
- CWE 180 CO-OP-ED INTERIOR DESIGN **1 Unit**

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

**Total Units for the Certificate: 60**

## International Languages

### Arabic

#### Associate of Arts

The curriculum in the Arabic program is designed to provide the student the opportunity to achieve an Associate in Arts in Arabic degree by providing the necessary breadth in the field. Students who complete the Associate in Arts Degree in Arabic will have more opportunities in government business, medicine, law, technology, industry, marketing and other related fields.

An Arabic degree provides students with more positive attitudes and less prejudice toward people who are different, teaches and encourages respect for other peoples: it fosters an understanding of the interrelation of language and human nature, appreciation of other ways of life, different systems of belief, and different ways of constructing knowledge, and, perhaps most importantly, a better understanding of the world in which they live and leads to an appreciation of cultural diversity. The curriculum in the Arabic program is designed to provide the student the opportunity to achieve an Associate in Arts (AA) in Arabic degree.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Reading Comprehension Upon completion of this program, students will accurately interpret written sections in Arabic.
- Listening Comprehension Students who complete this program will be able to accurately interpret spoken language in Arabic.
- Speaking and Conversation Students who complete this program will have proficient conversational skills in Arabic.



- History, Politics, Literature, Culture and Art upon completion of this program, students will demonstrate knowledge of the history, politics, literature, culture and arts of the Arabic speaking countries as well as people who speak Arabic.

### Required Courses

- ARAB 1 ELEMENTARY ARABIC **5 Units \***
- ARAB 2 ELEMENTARY ARABIC **5 Units \***
- ARAB 3 INTERMEDIATE ARABIC **5 Units \***
- ARAB 4 INTERMEDIATE ARABIC **5 Units \***
- ARAB 10 INTERMEDIATE CONVERSATIONAL ARABIC **3 Units \***  
*or*
- ARAB 21 INTRODUCTION TO ARABIC CULTURE **3 Units \***
- ARAB 901 ARABIC LANGUAGE LAB **0.5 Unit \***
- ARAB 902 ARABIC LANGUAGE LAB **0.5 Unit \***
- ARAB 903 ARABIC LANGUAGE LAB **0.5 Unit \***
- ARAB 904 ARABIC LANGUAGE LAB **0.5 Unit \***

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

### Total Units for the Major: 25

### Associate of 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 of 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.

## Chinese Associate of Arts

The curriculum in the Chinese program is designed to provide the student the opportunity to achieve an Associate in Arts in Chinese degree by providing the necessary breadth in the field. Students who complete the Associate in Arts Degree in Chinese will have more opportunities in government business, medicine, law, technology, industry, marketing and other related fields.

A Chinese degree provides students with more positive attitudes and less prejudice toward people who are different, teaches and encourages respect for other peoples: it fosters an understanding of the interrelation of language and human nature, appreciation of other ways of life, different systems of belief, and different ways of constructing knowledge, and, perhaps most importantly, a better understanding of the world in which they live and leads to an appreciation of cultural diversity. The curriculum in the Chinese program is designed to provide the student the opportunity to achieve an Associate in Arts (AA) in Chinese degree.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Reading Comprehension Upon completion of this program, students will accurately interpret written sections in Chinese.
- Listening Comprehension Students who complete this program will be able to accurately interpret spoken language in Chinese.
- Speaking and Conversation Students who complete this program will have proficient conversational skills in Chinese.

- History, Politics, Literature, Culture and Art Upon completion of this program, students will demonstrate knowledge of the history, politics, literature, culture and arts of the Chinese speaking countries as well as people who speak Chinese.

### Required Courses

- CHI 1 ELEMENTARY CHINESE **5 Units \***
- CHI 2 ELEMENTARY CHINESE **5 Units \***
- CHI 3 INTERMEDIATE CHINESE **5 Units \***
- CHI 4 INTERMEDIATE CHINESE **5 Units \***
- CHI 21 INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S. **3 Units \***
- CHI 901 CHINESE LANGUAGE LAB **0.5 Unit \***
- CHI 902 CHINESE LANGUAGE LAB **0.5 Unit \***
- CHI 903 CHINESE LANGUAGE LAB **0.5 Unit \***
- CHI 904 CHINESE LANGUAGE LAB **0.5 Unit \***

### Total Units for the Major: 25

### Associate of 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 of 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.

## French Associate of Arts

The curriculum in the French program is designed to provide the student the opportunity to achieve an Associate in Arts in French degree by providing the necessary breadth in the field. Students who complete the Associate in Arts Degree in French will have more opportunities in government business, medicine, law, technology, industry, marketing and other related fields.

A French degree provides students with more positive attitudes and less prejudice toward people who are different, teaches and encourages respect for other peoples: it fosters an understanding of the interrelation of language and human nature, appreciation of other ways of life, different systems of belief, and different ways of constructing knowledge, and, perhaps most importantly, a better understanding of the world in which they live and leads to an appreciation of cultural diversity. The curriculum in the French program is designed to provide the student the opportunity to achieve an Associate in Arts (AA) in French degree.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Reading Comprehension Upon completion of this program, students will accurately interpret written sections in French.
- Listening Comprehension Students who complete this program will be able to accurately interpret spoken language in French.
- Speaking and Conversation Students who complete this program will have proficient conversational skills in French.
- History, Politics, Literature, Culture and Art Upon completion of this program, students will demonstrate knowledge of the history, politics, literature, culture and arts of the French speaking countries as well as people who speak French.

## Required Courses

- FR 1 ELEMENTARY FRENCH **5 Units** \*
- FR 2 ELEMENTARY FRENCH **5 Units** \*
- FR 3 INTERMEDIATE FRENCH **5 Units** \*
- FR 4 INTERMEDIATE FRENCH **5 Units** \*
- FR 10 INTERMEDIATE CONVERSATIONAL FRENCH **3 Units** \*
- or
- FR 21 INTRODUCTION TO FRENCH LANGUAGE AND CULTURE **3 Units** \*
- FR 901 FRENCH LANGUAGE LAB **0.5 Unit** \*
- FR 902 FRENCH LANGUAGE LAB **0.5 Unit** \*
- FR 903 FRENCH LANGUAGE LAB **0.5 Unit** \*
- FR 904 FRENCH LANGUAGE LAB **0.5 Unit** \*

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

## Total Units for the Major: 25

### Associate of Arts 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 of 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.

## German Associate of Arts

The curriculum in the German program is designed to provide the student the opportunity to achieve an Associate in Arts in German degree by providing the necessary breadth in the field. Students who complete the Associate in Arts Degree in German will have more opportunities in government business, medicine, law, technology, industry, marketing and other related fields.

A German degree provides students with more positive attitudes and less prejudice toward people who are different, teaches and encourages respect for other peoples: it fosters an understanding of the interrelation of language and human nature, appreciation of other ways of life, different systems of belief, and different ways of constructing knowledge, and, perhaps most importantly, a better understanding of the world in which they live and leads to an appreciation of cultural diversity. The curriculum in the German program is designed to provide the student the opportunity to achieve an Associate in Arts (AA) in German degree.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Reading Comprehension Upon completion of this program, students will accurately interpret written sections in German.
- Listening Comprehension Students who complete this program will be able to accurately interpret spoken language in German.
- Speaking and Conversation Students who complete this program will have proficient conversational skills in German.
- History, Politics, Literature, Culture and Art Upon completion of this program, students will demonstrate knowledge of the history, politics, literature, culture and arts of the German speaking countries as well as people who speak German.

## Required Courses

- GER 1 ELEMENTARY GERMAN **5 Units** \*
- GER 2 ELEMENTARY GERMAN **5 Units** \*
- GER 3 INTERMEDIATE GERMAN **5 Units** \*
- GER 4 INTERMEDIATE GERMAN **5 Units** \*
- ARAB 21 INTRODUCTION TO ARABIC CULTURE **3 Units** \*
- or
- CHI 21 INTRODUCTION TO CHINESE CULTURE AND INFLUENCE IN THE U.S. **3 Units** \*
- or
- FR 21 INTRODUCTION TO FRENCH LANGUAGE AND CULTURE **3 Units** \*
- or
- ITA 21 INTRODUCTION TO ITALIAN CULTURE **3 Units** \*
- or
- JA 21 INTRODUCTION TO JAPANESE CULTURE **3 Units** \*
- or
- KOR 21 INTRODUCTION TO KOREAN CULTURE **3 Units** \*
- or
- PORT 21 INTRODUCTION TO PORTUGUESE AND BRAZILIAN CULTURE **3 Units** \*
- or
- PRSN 21 INTRODUCTION TO PERSIAN CULTURE **3 Units** \*
- GER 901 GERMAN LANGUAGE LAB **0.5 Unit** \*
- GER 902 GERMAN LANGUAGE LAB **0.5 Unit** \*
- GER 903 GERMAN LANGUAGE LAB **0.5 Unit** \*
- GER 904 GERMAN LANGUAGE LAB **0.5 Unit** \*

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

## Total Units for the Major: 25

### Associate of Arts 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 of 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.

## Italian Associate of Arts

The curriculum in the Italian program is designed to provide the student the opportunity to achieve an Associate in Arts in Italian degree by providing the necessary breadth in the field. Students who complete the Associate in Arts Degree in Italian will have more opportunities in government business, medicine, law, technology, industry, marketing and other related fields.

A Italian degree provides students with more positive attitudes and less prejudice toward people who are different, teaches and encourages respect for other peoples: it fosters an understanding of the interrelation of language and human nature, appreciation of other ways of life, different systems of belief, and different ways of constructing knowledge, and, perhaps most importantly, a better understanding of the world in which they live and leads to

an appreciation of cultural diversity. The curriculum in the Italian program is designed to provide the student the opportunity to achieve an Associate in Arts (AA) in Italian degree.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Reading Comprehension Upon completion of this program, students will accurately interpret written sections in Italian.
- Listening Comprehension Students who complete this program will be able to accurately interpret spoken language in Italian.
- Speaking and Conversation Students who complete this program will have proficient conversational skills in Italian.
- History, Politics, Literature, Culture and Art Upon completion of this program, students will demonstrate knowledge of the history, politics, literature, culture and arts of the Italian speaking countries as well as people who speak Italian.

### Required Courses

- ITA 1 ELEMENTARY ITALIAN **5 Units** \*
- ITA 2 ELEMENTARY ITALIAN **5 Units** \*
- ITA 3 INTERMEDIATE ITALIAN **5 Units** \*
- ITA 4 INTERMEDIATE ITALIAN **5 Units** \*
- ITA 21 INTRODUCTION TO ITALIAN CULTURE **3 Units** \*
- ITA 901 ITALIAN LANGUAGE LAB **0.5 Unit** \*
- ITA 902 ITALIAN LANGUAGE LAB **0.5 Unit** \*
- ITA 903 ITALIAN LANGUAGE LAB **0.5 Unit** \*
- ITA 904 ITALIAN LANGUAGE LAB **0.5 Unit** \*

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

### Total Units for the Major: 25

### Associate of Arts 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 of 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.

## Japanese Associate of Arts

The curriculum in the Japanese program is designed to provide the student the opportunity to achieve an Associate in Arts in Japanese degree by providing the necessary breadth in the field. Students who complete the Associate in Arts Degree in Japanese will have more opportunities in government business, medicine, law, technology, industry, marketing and other related fields.

A Japanese degree provides students with more positive attitudes and less prejudice toward people who are different, teaches and encourages respect for other peoples: it fosters an understanding of the interrelation of language and human nature, appreciation of other ways of life, different systems of belief, and different ways of constructing knowledge, and, perhaps most importantly, a better understanding of the world in which they live and leads to an appreciation of cultural diversity. The curriculum in the Japanese program is designed to provide the student the opportunity to achieve an Associate in Arts (AA) in Japanese degree.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Reading Comprehension Upon completion of this program, students will accurately interpret written sections in Japanese.
- Listening Comprehension Students who complete this program will be able to accurately interpret spoken language in Japanese.
- Speaking and Conversation Students who complete this program will have proficient conversational skills in Japanese.
- History, Politics, Literature, Culture and Art Upon completion of this program, students will demonstrate knowledge of the history, politics, literature, culture and arts of the Japanese speaking countries as well as people who speak Japanese.

### Required Courses

- JA 1 ELEMENTARY JAPANESE **5 Units** \*
- JA 2 ELEMENTARY JAPANESE **5 Units** \*
- JA 3 INTERMEDIATE JAPANESE **5 Units** \*
- JA 4 INTERMEDIATE JAPANESE **5 Units** \*
- JA 21 INTRODUCTION TO JAPANESE CULTURE **3 Units** \*
- JA 901 JAPANESE LANGUAGE LAB **0.5 Unit** \*
- JA 902 JAPANESE LANGUAGE LAB **0.5 Unit** \*
- JA 903 JAPANESE LANGUAGE LAB **0.5 Unit** \*
- JA 904 JAPANESE LANGUAGE LAB **0.5 Unit** \*

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

### Total Units for the Major: 25

### Associate of Arts 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 of 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.

## Spanish Associate in Arts

This Associate in Arts in Spanish degree provides a comprehensive foundation in the Spanish language and culture. The degree ensures the development of listening, reading, writing, and speaking skills and an informed appreciation of Spanish speaking cultures. This 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. 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 Comprehensive knowledge of Spanish vocabulary.
- Use proficient conversational skills in Spanish.
- Read and write in Spanish.
- Demonstrate knowledge of the history, politics, literature and arts of the Hispanic speaking countries.

## Required Courses

- SPAN 1 ELEMENTARY SPANISH **5 Units** \*
- or
- SPAN 1H HONORS ELEMENTARY SPANISH **5 Units** \*
- SPAN 2 ELEMENTARY SPANISH **5 Units** \*
- or
- SPAN 2H HONORS ELEMENTARY SPANISH **5 Units** \*
- SPAN 3 INTERMEDIATE SPANISH **5 Units** \*
- SPAN 4 INTERMEDIATE SPANISH **5 Units** \*
- Select one course from Restricted Electives: **3 Units**

## Total Units for the Major: 23

## Restricted Electives

- SPAN 6 INTERMEDIATE SPANISH GRAMMAR AND COMPOSITION **3 Units** \*
- SPAN 10 INTERMEDIATE CONVERSATIONAL SPANISH **3 Units** \*
- SPAN 11 ADVANCED CONVERSATIONAL SPANISH **3 Units** \*
- SPAN 20A CIVILIZATION OF SPAIN THROUGH 1898 **3 Units** \*
- SPAN 20B CIVILIZATION OF SPAIN 1898 TO PRESENT **3 Units** \*
- SPAN 21A CIVILIZATION OF LATIN AMERICA THROUGH 1900 **3 Units** \*
- SPAN 21B CIVILIZATION OF LATIN AMERICA 1900-PRESENT **3 Units** \*
- SPAN 21C HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES **3 Units** \*

\*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.

## Spanish Associate in Arts 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.**

## Required Courses

- SPAN 1 ELEMENTARY SPANISH **5 Units** \*
- SPAN 2 ELEMENTARY SPANISH **5 Units** \*
- SPAN 3 INTERMEDIATE SPANISH **5 Units** \*
- SPAN 4 INTERMEDIATE SPANISH **5 Units** \*

## 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):

- SPAN 6 INTERMEDIATE SPANISH GRAMMAR AND COMPOSITION **3 Units** \*
- SPAN 10 INTERMEDIATE CONVERSATIONAL SPANISH **3 Units** \*
- SPAN 20A CIVILIZATION OF SPAIN THROUGH 1898 **3 Units** \*
- SPAN 20B CIVILIZATION OF SPAIN 1898 TO PRESENT **3 Units** \*
- SPAN 21A CIVILIZATION OF LATIN AMERICA THROUGH 1900 **3 Units** \*
- SPAN 21B CIVILIZATION OF LATIN AMERICA 1900-PRESENT **3 Units** \*
- SPAN 21C HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES **3 Units** \*

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

## Total Units for the Major: 23

## Journalism Associate in Arts 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.

### Required Core (10 units)

- JRN 1 MASS MEDIA AND SOCIETY **3 Units**
- JRN 2 NEWS WRITING **3 Units** \*
- JRN 111 NEWS MEDIA PRODUCTION AND EDITING **4 Units** \*  
or
- JRN 112 NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL MEDIA **4 Units** \*
- or
- JRN 107 NEWS MEDIA PRODUCTION AND INVESTIGATIVE REPORTING **4 Units** \*

### Group A: Select one of the following courses (3-4 units):

- JRN 106 VIDEO JOURNALISM **3 Units** \*
- JRN 109 NEWS MEDIA PRODUCTION AND DATA REPORTING **4 Units** \*

### Group B: Select two of the following courses (6-10 units):

- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*
- ECON 4 PRINCIPLES (MICRO) **3 Units** \*  
or
- ECON 2 PRINCIPLES (MACRO) **3 Units** \*
- PS 1 AMERICAN GOVERNMENT **3 Units**
- PS 12 COMPARATIVE POLITICS AND GOVERNMENT **3 Units**
- ENG 1B PRINCIPLES OF COMPOSITION II **3 Units** \*
- SP 3 ARGUMENTATION AND DEBATE **3 Units** \*

### If selecting courses from the list below to fulfill Group B requirements, the courses must come from two different CSU Breadth areas within A through D or IGETC areas 1A through 5C:

- SP 1 COMMUNICATION FUNDAMENTALS **3 Units**
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- MATH 2 PRE-CALCULUS MATHEMATICS **5 Units** \*
- ENV 24 NATURAL HISTORY OF CALIFORNIA **4 Units**
- CTVR 3 THE HISTORY AND APPRECIATION OF AMERICAN CINEMA **3 Units**
- CTVR 5 HISTORY AND APPRECIATION OF INTERNATIONAL CINEMA **3 Units**
- CTVR 7 CROSS CULTURAL CINEMA **3 Units**
- CTVR 9 WOMEN IN CINEMA AND TELEVISION **3 Units**
- MUS 27 HISTORY OF JAZZ **3 Units**
- MUS 28 HISTORY OF ROCK **3 Units**
- PHOT 25 HISTORY OF PHOTOGRAPHY **3 Units**
- CHI 1 ELEMENTARY CHINESE **5 Units** \*
- FR 1 ELEMENTARY FRENCH **5 Units** \*
- SL 1 AMERICAN SIGN LANGUAGE I **4 Units** \*
- SPAN 1 ELEMENTARY SPANISH **5 Units** \*
- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**
- ES 1 MULTICULTURAL EXPERIENCES IN THE UNITED STATES **3 Units**
- ES 2 MULTICULTURAL IDENTITIES IN THE UNITED STATES **3 Units**
- ES 10 MARGINS AND BORDER CROSSINGS **3 Units**

### WS 10 INTRODUCTION TO WOMEN'S STUDIES **3 Units**

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

### Total Units for the Major: 19-24

## Journalism Associate in Science

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.

### Required Courses

- JRN 1 MASS MEDIA AND SOCIETY **3 Units**  
or
- CTVR 1 MASS MEDIA AND SOCIETY **3 Units**
- JRN 2 NEWS WRITING **3 Units** \*
- JRN 105 FEATURE WRITING **3 Units**
- JRN 125 MAGAZINE JOURNALISM **3 Units** \*†  
and
- JRN 113 MAGAZINE PRODUCTION FOR DIGITAL PLATFORMS **3 Units** \*
- Select two News Media Production courses **8 units**

### Total Units for the Major: 23

### News Media Production

- JRN 107 NEWS MEDIA PRODUCTION AND INVESTIGATIVE REPORTING **4 Units** \*
- JRN 109 NEWS MEDIA PRODUCTION AND DATA REPORTING **4 Units** \*
- JRN 111 NEWS MEDIA PRODUCTION AND EDITING **4 Units** \*
- JRN 112 NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL MEDIA **4 Units** \*

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



## Associate in Science Degree

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

## 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: JRN 106\*, JRN 110\*; PHOT 50, PHOT 55\*.

## Journalism Certificate of Achievement

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.

## Required Courses

- JRN 1 MASS MEDIA AND SOCIETY **3 Units**  
*or*
- CTVR 1 MASS MEDIA AND SOCIETY **3 Units**
- JRN 2 NEWS WRITING **3 Units** \*
- JRN 105 FEATURE WRITING **3 Units**
- JRN 125 MAGAZINE JOURNALISM **3 Units** \*†  
*and*
- JRN 113 MAGAZINE PRODUCTION FOR DIGITAL PLATFORMS **3 Units** \*
- Select two News Media Production courses **8 Units**

**Total Units for the Certificate: 23**

## News Media Production

- JRN 107 NEWS MEDIA PRODUCTION AND INVESTIGATIVE REPORTING **4 Units** \*
- JRN 109 NEWS MEDIA PRODUCTION AND DATA REPORTING **4 Units** \*
- JRN 111 NEWS MEDIA PRODUCTION AND EDITING **4 Units** \*
- JRN 112 NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL MEDIA **4 Units** \*

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

## Kinesiology Associate of Arts

The curriculum in the Kinesiology Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate degree. Kinesiology provides a critical element in a comprehensive, well-balanced educational program. The learning opportunities offered in this area can be an essential factor to the optimum development of a student in all areas of life; physical, mental, emotional, and social. Kinesiology courses contribute significantly toward the achievement of desirable educational outcomes, such as transfer to four-year colleges and universities, and prepares students for successful outcomes through the means of physical activity and related experiences. 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 affective gains through social interactions, teamwork, and sportsmanship in Kinesiology courses.
- Distinguish and articulate fundamental concepts or skills of a specific activity or sport.

## Required Courses

- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**
- HLTH 1 CONTEMPORARY HEALTH ISSUES **3 Units**  
*or*
- HLTH 3 WOMEN'S HEALTH ISSUES **3 Units**
- HLTH 2 FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR **1.5 Units**
- KNES 51 INTRODUCTION TO KINESIOLOGY **3 Units**
- KNES 52 FUNDAMENTALS OF HUMAN MOVEMENT **3 Units**
- BIO 20 INTRODUCTION TO BIOLOGY **4 Units**  
*or*
- *1 year of high school biology with a grade of "C" or better*
- BIO 11 HUMAN ANATOMY **4 Units** \*
- Select One Course from Training and Theory **3 Units**
- Required Movement Based Skills Courses **7 Units**
- Select One Additional Movement Based Skill Course from the Provided List **1-1.5 Units**

**Total Units for the Major: 28.5-33**

### Training and Theory (3 Units)

- KNES 53 INTRODUCTION TO ATHLETIC TRAINING **3 Units**
- KNES 54 PRINCIPLES AND FUNDAMENTALS OF COACHING **3 Units \***
- KNES 105 MENTAL SKILLS FOR SPORTS PERFORMANCE **3 Units**

### Required Movement Based Skills Courses: Select 7 Courses from the following in at least 4 areas (7 units):

#### Aquatics

- KNES 41 SWIMMING FOR NONSWIMMERS **1 Unit** <<  
*or*
- KNES 42 INTERMEDIATE SWIMMING **1 Unit** \* <<
- KNES 44 AQUATIC CONDITIONING **1 Unit** \*
- KNES 49 AQUA AEROBICS **1 Unit**

#### Combative

- KNES 90 BEGINNING SELF-DEFENSE **1 Unit**
- KNES 93 BEGINNING KARATE **1 Unit**

#### Fitness

- KNES 1 CARDIOVASCULAR CONDITIONING **1 Unit**
- KNES 4 BEGINNING WEIGHT LIFTING **1 Unit**
- KNES 28 BEGINNING YOGA **1 Unit**
- KNES 29 INTRODUCTION TO TAI CHI CH'UAN **1 Unit**
- KNES 65 INTRODUCTION TO MAT PILATES **1 Unit**  
*or*
- DANC 65 INTRODUCTION TO MAT PILATES **1 Unit**
- KNES 68 WALKING FOR FITNESS **1 Unit** \*

#### Individual Sports

- KNES 17 BEGINNING BOWLING **1 Unit**
- KNES 20 BEGINNING GOLF I **1 Unit**
- KNES 24 BEGINNING TENNIS I **1 Unit**
- KNES 25 BEGINNING TENNIS II **1 Unit**
- KNES 33 BEGINNING SURFING I **1 Unit** \*

#### Team Sports

- KNES 70 BASKETBALL **1 Unit**
- KNES 72 BEGINNING SOCCER **1 Unit**
- KNES 76 BEGINNING VOLLEYBALL **1 Unit**
- KNES 77 INTERMEDIATE VOLLEYBALL **1 Unit** \*
- KNES 78 ADVANCED VOLLEYBALL **1 Unit** \*
- KNES 81 BEGINNING BEACH VOLLEYBALL **1 Unit**

### Select One Additional Movement Based Skill Course from the following Six Categories (1-1.5 units):

#### Aquatics

- KNES 41 SWIMMING FOR NONSWIMMERS **1 Unit**  
*or*
- KNES 41 SWIMMING FOR NONSWIMMERS **1.5 Units**
- KNES 42 INTERMEDIATE SWIMMING **1 Unit** \*  
*or*
- KNES 42 INTERMEDIATE SWIMMING **1.5 Units** \*
- KNES 43 ADVANCED SWIMMING AND DIVING **1 Unit** \*  
*or*
- KNES 43 ADVANCED SWIMMING AND DIVING **1.5 Units** \*
- KNES 44 AQUATIC CONDITIONING **1 Unit** \*  
*or*

- KNES 44 AQUATIC CONDITIONING **1.5 Units** \*
- KNES 49 AQUA AEROBICS **1 Unit**  
*or*
- KNES 49 AQUA AEROBICS **1.5 Units**

#### Combative

- KNES 90 BEGINNING SELF-DEFENSE **1 Unit**
- KNES 91 INTERMEDIATE SELF DEFENSE **1 Unit** \*
- KNES 93 BEGINNING KARATE **1 Unit**
- KNES 94 BEGINNING AIKIDO **1 Unit**
- KNES 95 INTERMEDIATE AIKIDO **1 Unit** \*
- KNES 96 ADVANCED AIKIDO **1 Unit** \*
- KNES 97 INTERMEDIATE KARATE **1 Unit** \*
- KNES 199 STREET MARTIAL ARTS **1 Unit**

#### Dance

- DANC 51 INTRODUCTION TO BALLET **1 Unit**  
*or*
- DANC 51 INTRODUCTION TO BALLET **1.5 Units**
- DANC 54 INTRODUCTION TO MODERN DANCE **1 Unit**  
*or*
- DANC 54 INTRODUCTION TO MODERN DANCE **1.5 Units**
- DANC 57 INTRODUCTION TO JAZZ DANCING **1 Unit**  
*or*
- DANC 57 INTRODUCTION TO JAZZ DANCING **1.5 Units**
- DANC 60 INTRODUCTION TO TAP DANCING **1 Unit**
- DANC 66 INTRODUCTION TO LATIN DANCE **1 Unit**
- DANC 68 INTRODUCTION TO SOCIAL DANCE **1 Unit**

#### Fitness

- KNES 1 CARDIOVASCULAR CONDITIONING **1 Unit**  
*or*
- KNES 1 CARDIOVASCULAR CONDITIONING **1.5 Units**
- KNES 3 CIRCUIT WEIGHT TRAINING **1 Unit**  
*or*
- KNES 3 CIRCUIT WEIGHT TRAINING **1.5 Units**
- KNES 4 BEGINNING WEIGHT LIFTING **1 Unit**  
*or*
- KNES 4 BEGINNING WEIGHT LIFTING **1.5 Units**
- KNES 5 INTERMEDIATE WEIGHT LIFTING **1 Unit** \*  
*or*
- KNES 5 INTERMEDIATE WEIGHT LIFTING **1.5 Units** \*
- KNES 6 ADVANCED WEIGHT LIFTING **1 Unit** \*  
*or*
- KNES 6 ADVANCED WEIGHT LIFTING **1.5 Units** \*
- KNES 7 STEP TRAINING **1 Unit**
- KNES 8 BEGINNING CARDIO KICKBOXING **1 Unit**  
*or*
- KNES 8 BEGINNING CARDIO KICKBOXING **1.5 Units**
- KNES 9 STRETCHING, FLEXIBILITY, AND CONDITIONING **1 Unit**  
*or*
- KNES 9 STRETCHING, FLEXIBILITY, AND CONDITIONING **1.5 Units**
- KNES 10 CROSS TRAINING **1 Unit**  
*or*
- KNES 10 CROSS TRAINING **1.5 Units**

- KNES 28 BEGINNING YOGA **1 Unit**  
*or*
- KNES 28 BEGINNING YOGA **1.5 Units**
- KNES 29 INTRODUCTION TO TAI CHI CH'UAN **1 Unit**
- KNES 31 MUSCLE TONING FOR WOMEN **1 Unit**  
*or*
- KNES 31 MUSCLE TONING FOR WOMEN **1.5 Units**
- KNES 37 INTERMEDIATE TAI CHI CH'UAN **1 Unit \***
- KNES 38 INTERMEDIATE MAT PILATES **1 Unit \***  
*or*
- DANC 38 INTERMEDIATE MAT PILATES **1 Unit \***  
*or*
- KNES 38 INTERMEDIATE MAT PILATES **1.5 Units \***  
*or*
- DANC 38 INTERMEDIATE MAT PILATES **1.5 Units \***
- KNES 39 INTERMEDIATE YOGA **1 Unit \***  
*or*
- KNES 39 INTERMEDIATE YOGA **1.5 Units \***
- KNES 40 ADVANCED YOGA **1 Unit \***  
*or*
- KNES 40 ADVANCED YOGA **1.5 Units \***
- KNES 50 AEROBIC DANCE **1 Unit**  
*or*
- KNES 50 AEROBIC DANCE **1.5 Units**
- KNES 65 INTRODUCTION TO MAT PILATES **1 Unit**  
*or*
- DANC 65 INTRODUCTION TO MAT PILATES **1 Unit**  
*or*
- KNES 65 INTRODUCTION TO MAT PILATES **1.5 Units**  
*or*
- DANC 65 INTRODUCTION TO MAT PILATES **1.5 Units**
- KNES 66 CORE TRAINING **1 Unit**  
*or*
- KNES 66 CORE TRAINING **1.5 Units**
- KNES 68 WALKING FOR FITNESS **1 Unit \***
- KNES 69 TRAIL HIKING **1 Unit \***
- KNES 107 FITNESS ASSESSMENT AND SURVEY **1 Unit**

### Individual Sports

- KNES 17 BEGINNING BOWLING **1 Unit**
- KNES 18 INTERMEDIATE BOWLING **1 Unit \***
- KNES 19 BEGINNING CYCLING AND SPINNING **1 Unit**  
*or*
- KNES 19 BEGINNING CYCLING AND SPINNING **1.5 Units**
- KNES 20 BEGINNING GOLF I **1 Unit**  
*or*
- KNES 20 BEGINNING GOLF I **1.5 Units**
- KNES 21 BEGINNING GOLF II **1 Unit \***  
*or*
- KNES 21 BEGINNING GOLF II **1.5 Units \***
- KNES 22 INTERMEDIATE GOLF **1 Unit \***  
*or*
- KNES 22 INTERMEDIATE GOLF **1.5 Units \***
- KNES 23 ADVANCED GOLF **1 Unit \***  
*or*
- KNES 23 ADVANCED GOLF **1.5 Units \***

- KNES 24 BEGINNING TENNIS I **1 Unit**  
*or*
- KNES 24 BEGINNING TENNIS I **1.5 Units**
- KNES 25 BEGINNING TENNIS II **1 Unit \***  
*or*
- KNES 25 BEGINNING TENNIS II **1.5 Units \***
- KNES 26 INTERMEDIATE TENNIS **1 Unit \***  
*or*
- KNES 26 INTERMEDIATE TENNIS **1.5 Units \***
- KNES 27 ADVANCED TENNIS **1 Unit \***  
*or*
- KNES 27 ADVANCED TENNIS **1.5 Units \***
- KNES 33 BEGINNING SURFING I **1 Unit \***
- KNES 34 BEGINNING SURFING II - SHORTBOARDING **1 Unit \***
- KNES 35 INTERMEDIATE SURFING **1 Unit \***
- KNES 36 ADVANCED SURFING **1 Unit \***
- KNES 63 BEGINNING ROCK CLIMBING **1 Unit**
- KNES 88 INTERMEDIATE ROCK CLIMBING **1 Unit \***
- KNES 89 ADVANCED ROCK CLIMBING **1 Unit \***

### Team Sports

- KNES 70 BASKETBALL **1 Unit**  
*or*
- KNES 70 BASKETBALL **1.5 Units**
- KNES 71 ADVANCED BASKETBALL **1 Unit \***  
*or*
- KNES 71 ADVANCED BASKETBALL **1.5 Units \***
- KNES 72 BEGINNING SOCCER **1 Unit**  
*or*
- KNES 72 BEGINNING SOCCER **1.5 Units**
- KNES 73 ADVANCED SOCCER **1 Unit \***  
*or*
- KNES 73 ADVANCED SOCCER **1.5 Units \***
- KNES 76 BEGINNING VOLLEYBALL **1 Unit**  
*or*
- KNES 76 BEGINNING VOLLEYBALL **1.5 Units**
- KNES 77 INTERMEDIATE VOLLEYBALL **1 Unit \***  
*or*
- KNES 77 INTERMEDIATE VOLLEYBALL **1.5 Units \***
- KNES 78 ADVANCED VOLLEYBALL **1 Unit \***  
*or*
- KNES 78 ADVANCED VOLLEYBALL **1.5 Units \***
- KNES 81 BEGINNING BEACH VOLLEYBALL **1 Unit**
- KNES 84 INTERMEDIATE BEACH VOLLEYBALL **1 Unit \***

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

<<Students may take either KNES 41 or KNES 42 but not both.

### Associate of 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 of 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.

## Kinesiology Associate in Arts 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.

### Required Core

- KNES 51 INTRODUCTION TO KINESIOLOGY **3 Units**
  - BIO 11 HUMAN ANATOMY **4 Units \***
  - BIO 12 HUMAN PHYSIOLOGY **4 Units \***
- and*

**Select a maximum of one course each from any three of the following movement-based course areas (3 units):**

#### Aquatics

- KNES 41 SWIMMING FOR NONSWIMMERS **1 Unit**
- or*
- KNES 41 SWIMMING FOR NONSWIMMERS **1.5 Units**
- KNES 42 INTERMEDIATE SWIMMING **1 Unit \***
- or*
- KNES 42 INTERMEDIATE SWIMMING **1.5 Units \***
- KNES 44 AQUATIC CONDITIONING **1 Unit \***
- or*
- KNES 44 AQUATIC CONDITIONING **1.5 Units \***

#### Combatives

- KNES 90 BEGINNING SELF-DEFENSE **1 Unit**
- or*
- KNES 90 BEGINNING SELF-DEFENSE **1.5 Units**
- KNES 93 BEGINNING KARATE **1 Unit**
- or*
- KNES 93 BEGINNING KARATE **1.5 Units**
- KNES 94 BEGINNING AIKIDO **1 Unit**
- or*
- KNES 94 BEGINNING AIKIDO **1.5 Units**

#### Fitness

- KNES 1 CARDIOVASCULAR CONDITIONING **1 Unit**
- or*
- KNES 1 CARDIOVASCULAR CONDITIONING **1.5 Units**
- KNES 50 AEROBIC DANCE **1 Unit**
- or*
- KNES 50 AEROBIC DANCE **1.5 Units**

#### Individual Sports

- KNES 20 BEGINNING GOLF I **1 Unit**
- or*
- KNES 20 BEGINNING GOLF I **1.5 Units**
- KNES 24 BEGINNING TENNIS I **1 Unit**
- or*
- KNES 24 BEGINNING TENNIS I **1.5 Units**
- KNES 25 BEGINNING TENNIS II **1 Unit \***
- or*
- KNES 25 BEGINNING TENNIS II **1.5 Units \***
- KNES 26 INTERMEDIATE TENNIS **1 Unit \***
- or*
- KNES 26 INTERMEDIATE TENNIS **1.5 Units \***

#### Team Sports

- KNES 70 BASKETBALL **1 Unit**
- or*
- KNES 70 BASKETBALL **1.5 Units**
- KNES 71 ADVANCED BASKETBALL **1 Unit \***
- or*
- KNES 71 ADVANCED BASKETBALL **1.5 Units \***
- KNES 72 BEGINNING SOCCER **1 Unit**
- or*
- KNES 72 BEGINNING SOCCER **1.5 Units**
- KNES 76 BEGINNING VOLLEYBALL **1 Unit**
- or*
- KNES 76 BEGINNING VOLLEYBALL **1.5 Units**
- KNES 77 INTERMEDIATE VOLLEYBALL **1 Unit \***
- or*
- KNES 77 INTERMEDIATE VOLLEYBALL **1.5 Units \***
- KNES 81 BEGINNING BEACH VOLLEYBALL **1 Unit**

**List A: Select two courses (7-9 units) from the following:**

- MATH 10 INTRODUCTION TO STATISTICS **3 Units \***
- BIO 20 INTRODUCTION TO BIOLOGY **4 Units**
- CHEM 108 INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY **4 Units**
- or*
- CHEM 1A GENERAL CHEMISTRY **5 Units \***



- PHYS 2A INTRODUCTION TO PHYSICS **5 Units \***  
*or*
  - PHYS 4A GENERAL PHYSICS **5 Units \***
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Major: 21-24**

### **Athletic Training 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.

#### **Required Courses**

- BIO 11 HUMAN ANATOMY **4 Units \***
  - BIO 20 INTRODUCTION TO BIOLOGY **4 Units**
  - HLTH 2 FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR **1.5 Units**
  - KNES 52 FUNDAMENTALS OF HUMAN MOVEMENT **3 Units**
  - KNES 53 INTRODUCTION TO ATHLETIC TRAINING **3 Units**
  - KNES 56 PRACTICUM IN ATHLETIC TRAINING – FALL SPORTS **2 Units \***  
*or*
  - KNES 59 PRACTICUM IN ATHLETIC TRAINING -SPRING SPORTS **2 Units \***
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Award: 17.5**

### **Coaching Occupational Skills Award**

This Occupational Skills Award is designed to prepare students for gaining employment in the fields of teaching, coaching, allied health, and fitness professions. The students will gain a variety of experiences, skills and knowledge that will cover a multitude of sports and associated fields. A minimum grade of "C" in all courses is required to receive this award.

#### **Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate and apply fundamentals of good nutrition for sports performance.
- Assess sports-related injuries and apply first aid.
- Use a variety of techniques for coaching.
- Apply psychological foundations for enhancing sports performance.

#### **Required Courses**

- FN 164 SPORTS NUTRITION **3 Units**
  - HLTH 2 FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR **1.5 Units**
  - KNES 51 INTRODUCTION TO KINESIOLOGY **3 Units**
  - KNES 53 INTRODUCTION TO ATHLETIC TRAINING **3 Units**
  - KNES 54 PRINCIPLES AND FUNDAMENTALS OF COACHING **3 Units \***
  - KNES 105 MENTAL SKILLS FOR SPORTS PERFORMANCE **3 Units**
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Award: 16.5**

### **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 with a prestigious certification. A minimum grade of "C" in all courses is required to receive this award, and 10 additional hours of practice teaching hours and feedback forms are mandated for those students applying for the Yoga Alliance credential.

#### **Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate core principles of Hatha Yoga.
- Demonstrate skills for instructing yoga, including verbal cues, sequences, variations, adjustments, and modifications.
- Illustrate stress management techniques with yoga poses.
- Describe the philosophy of yoga through history, and the development of asanas.
- Interpret major lineages of yoga and related practices and apply to contemporary teaching.

#### **Required Courses**

- KNES 60 ANATOMY AND FUNDAMENTALS OF YOGA **3 Units \***
- KNES 61 TEACHING OF YOGA **3 Units \***
- KNES 62 PHILOSOPHY OF YOGA **3 Units**
- SELECT 2 COURSES FROM RESTRICTED ELECTIVES **2-3 Units**

**Total Units for the Award: 11-12**

#### **Restricted Electives**

- KNES 28 BEGINNING YOGA **1 Unit**  
*or*
- KNES 28 BEGINNING YOGA **1.5 Units**
- KNES 39 INTERMEDIATE YOGA **1 Unit \***  
*or*
- KNES 39 INTERMEDIATE YOGA **1.5 Units \***
- KNES 40 ADVANCED YOGA **1 Unit \***  
*or*
- KNES 40 ADVANCED YOGA **1.5 Units \***
- DANC 28 YOGA FOR DANCERS **1.5 Units**

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

### **Liberal Studies Associate in Arts**

See page 149 for full program information.



## 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 Associate in Science

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.

#### Required Courses

- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**  
or
- BIO 19 MARINE BIOLOGY **4 Units \***  
or
- MS 4 SOUTHERN CALIFORNIA COASTAL ECOLOGY **4 Units**
- MS 20 INTRODUCTION TO OCEANOGRAPHY **4 Units**
- Select from Restricted Electives **15 Units**

#### Total Units for the Major: 23

#### Restricted Electives

- MST 201 MARLINSPIKE SEAMANSHIP **2 Units**
- MST 202 MARINE WEATHER **3 Units**
- MST 210 COASTAL NAVIGATION **3 Units**
- MST 211 CELESTIAL NAVIGATION **3 Units**
- MST 212 SAILING, SEAMANSHIP, AND BOATING SAFETY **3 Units**
- MST 214A INTERMEDIATE OCEAN SAILING **3 Units \***
- MST 214B ADVANCED CRUISING UNDER SAIL **3 Units \***
- MST 215 VESSEL COMMAND AND ORGANIZATION **3 Units \***
- MST 216 USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE **3 Units**
- MST 218 ELECTRONIC AIDS TO NAVIGATION **3 Units \***
- MST 219 MARINE ECOLOGICAL SURVEY/GIS **3 Units \***

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

## Associate in Science Degree

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

### 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 Associate in Science

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.

#### Required Courses

- MST 201 MARLINSPIKE SEAMANSHIP **2 Units**
- MST 202 MARINE WEATHER **3 Units**
- MST 210 COASTAL NAVIGATION **3 Units**
- MST 214B ADVANCED CRUISING UNDER SAIL **3 Units \***
- MST 215 VESSEL COMMAND AND ORGANIZATION **3 Units \***
- Select from Restricted Electives **9 Units**

#### Total Units for the Major: 23

#### Restricted Electives

- MST 211 CELESTIAL NAVIGATION **3 Units**
- MST 212 SAILING, SEAMANSHIP, AND BOATING SAFETY **3 Units**
- MST 214A INTERMEDIATE OCEAN SAILING **3 Units \***
- MST 216 USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE **3 Units**
- MST 218 ELECTRONIC AIDS TO NAVIGATION **3 Units \***
- MST 219 MARINE ECOLOGICAL SURVEY/GIS **3 Units \***
- MST 224 CHANNEL ISLANDS **1.5 Units**

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

## Associate in Science Degree

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

## 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: ET 101; DR 100, PHYS 2A.

### Marine Science Technician Certificate of Achievement

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.

#### Required Courses

- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**  
or
- BIO 19 MARINE BIOLOGY **4 Units \***  
or
- MS 4 SOUTHERN CALIFORNIA COASTAL ECOLOGY **4 Units**
- MS 20 INTRODUCTION TO OCEANOGRAPHY **4 Units**
- Select from Restricted Electives **15 Units**

#### Total Units for the Certificate: 23

#### Restricted Electives

- MST 201 MARLINSPIKE SEAMANSHIP **2 Units**
- MST 202 MARINE WEATHER **3 Units**
- MST 210 COASTAL NAVIGATION **3 Units**
- MST 211 CELESTIAL NAVIGATION **3 Units**
- MST 212 SAILING, SEAMANSHIP, AND BOATING SAFETY **3 Units**
- MST 214A INTERMEDIATE OCEAN SAILING **3 Units \***
- MST 214B ADVANCED CRUISING UNDER SAIL **3 Units \***
- MST 215 VESSEL COMMAND AND ORGANIZATION **3 Units \***
- MST 216 USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE **3 Units**
- MST 218 ELECTRONIC AIDS TO NAVIGATION **3 Units \***
- MST 219 MARINE ECOLOGICAL SURVEY/GIS **3 Units \***

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

### Seamanship Certificate of Achievement

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.

#### Required Courses

- MST 201 MARLINSPIKE SEAMANSHIP **2 Units**
- MST 202 MARINE WEATHER **3 Units**
- MST 210 COASTAL NAVIGATION **3 Units**
- MST 214B ADVANCED CRUISING UNDER SAIL **3 Units \***
- MST 215 VESSEL COMMAND AND ORGANIZATION **3 Units \***
- Select from Restricted Electives **9 Units**

#### Total Units for the Certificate: 23

#### Restricted Electives

- MST 211 CELESTIAL NAVIGATION **3 Units**
- MST 212 SAILING, SEAMANSHIP, AND BOATING SAFETY **3 Units**
- MST 214A INTERMEDIATE OCEAN SAILING **3 Units \***
- MST 216 USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE **3 Units**
- MST 218 ELECTRONIC AIDS TO NAVIGATION **3 Units \***
- MST 219 MARINE ECOLOGICAL SURVEY/GIS **3 Units \***
- MST 224 CHANNEL ISLANDS **1.5 Units**

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

### Mathematics Associate of Arts

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.

#### Prerequisites for Required Courses

- MATH 124 TRIGONOMETRY **3 Units \***
- MATH 2 PRE-CALCULUS MATHEMATICS **5 Units \***

**First Year**

- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- or
- MATH 3AH HONORS ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*

**Second Year**

- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MATH 3C ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MATH 24 ELEMENTARY DIFFERENTIAL EQUATIONS **4 Units** \*
- MATH 26 INTRODUCTION TO LINEAR ALGEBRA **4 Units** \*
- Select from Restricted Electives **3.5 Units**

**Total Units for the Major: 26.5-34.5****Restricted Electives: Select one of the following courses:**

- CS 1B INTRODUCTION TO COMPUTER SCIENCE II **3.5 Units** \*
- or
- CS 4A INTRODUCTION TO JAVA FOR COMPUTER SCIENCE **3.5 Units** \*

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

**Associate of Arts 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 of 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.

**Mathematics****Associate in Science for Transfer**

The Associate in Science in Mathematics for Transfer will allow students to seamlessly transfer to a CSU campus 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.

**Required Courses**

- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- or
- MATH 3AH HONORS ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*

- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MATH 3C ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*

**List A: Select One of the following courses (4 units):**

- MATH 24 ELEMENTARY DIFFERENTIAL EQUATIONS **4 Units** \*
- MATH 26 INTRODUCTION TO LINEAR ALGEBRA **4 Units** \*

**List B: Select One of the following courses (3-5 units):**

- PHYS 4A GENERAL PHYSICS **5 Units** \*
- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*

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

**Total Units for the Major: 22-24****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 Assistant program. A student may not enter Clinical Experience (MA 217) until all courses are completed with a grade of "C" or better.

**Administrative Medical Assistant  
Certificate of Achievement**

This program prepares the student for employment as an administrative (front office) medical assistant in a physician's office or clinic. The Administrative Medical Assistant program prepares the student to schedule appointments, perform medical reception duties, handle financial matters (including medical collection), manage electronic health records and other medical records, and do insurance billing. The externship in the front office of a physician's office will help provide the student with the administrative experience necessary to enter the workforce. Students are required to hold a valid basic life support CPR card for healthcare providers and carry malpractice insurance while in MA 217\*.

**Program Student Learning Outcomes**

Students who complete this program will be able to:

- Demonstrate administrative medical 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.

**Required Courses**

- HSC 201 MEDICAL TERMINOLOGY **3 Units**
- INSR 260 Computer Applications/EHR in Health Care **3 Units**
- INSR 224A Reimbursement Methodologies **3 Units**

- INSR 226A CPT/Ambulatory Care Coding **3 Units**
- INSR 228A Fundamentals of ICD Coding **3 Units**
- MA 206 INTRODUCTION TO MEDICAL ASSISTING **3 Units**
- MA 211A MEDICAL RECEPTION TECHNIQUES **2.5 Units**
- MA 212A MEDICAL OFFICE FINANCIAL PROCEDURES **2.5 Units**
- MA 213A MEDICAL RECORDS MANAGEMENT **2.5 Units**
- MA 217A MEDICAL ASSISTING CLINICAL EXPERIENCE–ADMINISTRATIVE **3 Units \***
- MA 222 Legal and Ethical Aspects of Health Information **3 Units**

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

### Total Units for the Certificate: 31.5

Suggested coursework not required for the major: EMT 207, EMT 207C; PHLB 240; MA 211B, MA 212B, MA 213B, MA 214B, MA 218B.

## Clinical Medical Assistant Certificate of Achievement

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.

### Required Courses

- HSC 201 MEDICAL TERMINOLOGY **3 Units**
- MA 206 INTRODUCTION TO MEDICAL ASSISTING **3 Units**
- MA 211B PHYSICAL-EXAMINATION PROCEDURES **3 Units**
- MA 212B MEDICAL OFFICE LABORATORY PROCEDURES **3 Units**
- MA 213B MEDICAL ASEPSIS AND SURGICAL PROCEDURES **3 Units**
- MA 214B MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS **3 Units**
- MA 218B ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT **3 Units**
- MA 260 COMPUTER APPLICATIONS EHR IN HEALTH CARE **3 Units**
- HSC 233 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION **3 Units**
- MA 217B MEDICAL ASSISTING CLINICAL EXPERIENCE CLINICAL **3 Units \***

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

### Total Units for the Certificate: 29

Suggested coursework not required for the major: BIO 113; EMT 207\*, EMT 207C\*; INSR 200; MA 211A, MA 212A, MA 213A, MA 224A, MA 226A\*, MA 228A\*.

## Comprehensive Medical Assistant Certificate of Achievement

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, electronic health records and other medical records management, surgical and laboratory procedures, venipuncture, pharmacology, injections, electrocardiography, public relations, and practice-building techniques. An externship in a physician's office combining administrative and clinical experience helps provide the student with the clinical experience necessary to enter the workforce. Students are required to 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.

### Required Courses

- HSC 201 MEDICAL TERMINOLOGY **3 Units**
- MA 206 INTRODUCTION TO MEDICAL ASSISTING **3 Units**
- MA 224A BASICS OF MEDICAL INSURANCE, BILLING AND REIMBURSEMENT **3 Units**
- MA 211A MEDICAL RECEPTION TECHNIQUES **2.5 Units**
- MA 213A MEDICAL RECORDS MANAGEMENT **2.5 Units**
- MA 226A FUNDAMENTALS OF CPT AMBULATORY CODING FOR MEDICAL ASSISTANTS **3 Units \***
- MA 212A MEDICAL OFFICE FINANCIAL PROCEDURES **2.5 Units**
- MA 212B MEDICAL OFFICE LABORATORY PROCEDURES **3 Units**
- MA 214B MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS **3 Units**
- MA 218B ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT **3 Units**
- MA 260 COMPUTER APPLICATIONS EHR IN HEALTH CARE **3 Units**
- HSC 233 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION **3 Units**
- MA 228A FUNDAMENTALS OF ICD CODING **3 Units \***
- MA 211B PHYSICAL-EXAMINATION PROCEDURES **3 Units**
- MA 213B MEDICAL ASEPSIS AND SURGICAL PROCEDURES **3 Units**
- MA 217C MEDICAL-ASSISTING CLINICAL EXPERIENCE COMPREHENSIVE **3 Units \***

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

### Total Units for the Certificate: 45.5

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.

### Required Courses

- HSC 201 MEDICAL TERMINOLOGY **3 Units**
- MA 260 COMPUTER APPLICATIONS EHR IN HEALTH CARE **3 Units**
- MA 224A BASICS OF MEDICAL INSURANCE, BILLING AND REIMBURSEMENT **3 Units**
- MA 226A FUNDAMENTALS OF CPT AMBULATORY CODING FOR MEDICAL ASSISTANTS **3 Units \***
- MA 228A FUNDAMENTALS OF ICD CODING **3 Units \***

**Total Units for the Award: 15**

## Medical Lab Technology Associate in Science

The Medical Laboratory Technician program prepares students for employment as an MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector.

The MLT program is a two-year curriculum leading to the 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:

- BIO 15 GENERAL MICROBIOLOGY **5 Units \***
- BIO 113 HUMAN ANATOMY AND PHYSIOLOGY **4 Units**
- CHEM 108 INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY **4 Units**
- MATH 253 INTERMEDIATE ALGEBRA **5 Units \***
- MLT 210 INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION **1 Unit**
- MLT 211 BASIC LABORATORY PROCEDURES **1 Unit \***
- PHLB 240 PHLEBOTOMY **4 Units \***
- and*
- CWE 180 CO-OP-ED PHLEBOTOMIST **2 Units \***

### Required Courses

- MLT 230 CLINICAL CHEMISTRY **5 Units \***
- MLT 232 CLINICAL MICROBIOLOGY **3 Units \***
- MLT 235 CLINICAL URINALYSIS **1 Unit \***
- MLT 236 CLINICAL HEMATOLOGY AND COAGULATION **3 Units \***
- MLT 242 CLINICAL CHEMISTRY PRACTICUM **4 Units \***
- MLT 243 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY **3 Units \***
- MLT 244 CLINICAL HEMATOLOGY, COAGULATION, AND URINALYSIS PRACTICUM **4 Units \***
- MLT 252 CLINICAL MICROBIOLOGY PRACTICUM **4 Units \***
- MLT 253 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY PRACTICUM **3 Units \***

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

**Total Units for the Major: 56**

### Associate in Science Degree

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

### 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 Lab Technology Certificate of Achievement

The Medical Laboratory Technician program prepares students for employment as an MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector.

The MLT program is a two-year curriculum leading to the 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:

- BIO 15 GENERAL MICROBIOLOGY **5 Units** \*
- BIO 113 HUMAN ANATOMY AND PHYSIOLOGY **4 Units**
- CHEM 108 INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY **4 Units**
- MATH 253 INTERMEDIATE ALGEBRA **5 Units** \*
- MLT 210 INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION **1 Unit**
- MLT 211 BASIC LABORATORY PROCEDURES **1 Unit** \*
- PHLB 240 PHLEBOTOMY **4 Units** \*
- and*
- CWE 180 CO-OP-ED PHLEBOTOMIST **2 Units** \*

### Required Courses

- MLT 230 CLINICAL CHEMISTRY **5 Units** \*
- MLT 232 CLINICAL MICROBIOLOGY **3 Units** \*
- MLT 235 CLINICAL URINALYSIS **1 Unit** \*
- MLT 236 CLINICAL HEMATOLOGY AND COAGULATION **3 Units** \*
- MLT 242 CLINICAL CHEMISTRY PRACTICUM **4 Units** \*
- MLT 243 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY **3 Units** \*
- MLT 244 CLINICAL HEMATOLOGY, COAGULATION, AND URINALYSIS PRACTICUM **4 Units** \*
- MLT 252 CLINICAL MICROBIOLOGY PRACTICUM **4 Units** \*

- MLT 253 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY PRACTICUM **3 Units** \*

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

### Total Units for the Certificate: 56

## Music Associate of Arts

The curriculum in Music is designed to provide the student the opportunity to achieve an Associate degree. While a baccalaureate or higher degree is recommended for those considering professional careers related to this field, earning the Associate degree will demonstrate commitment to the major, and attainment of a degree which can support attempts to gain entry-level employment. However, students wishing to transfer to a 4-year institution may need to take additional classes as preparation for transfer. Transfer students should consult their transfer institutions of choice for further information on specific lower-division Music Major requirements.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Transcribe and sight read both diatonic and chromatic music
- Demonstrate a working knowledge of musical analysis and harmonic theory applicable to their area of specialization
- Demonstrate a working knowledge of repertoire and performance practice applicable to their area of specialization
- Perform standard repertoire appropriate to their performance area, as individuals or as members of ensembles
- Demonstrate a working knowledge of music technology and its application to their area of specialization
- Create original music in improvised and/or written form
- Demonstrate the ability to listen critically to musical performance
- Demonstrate an ability to place composers, works and musical styles within an historical context, both in terms of musical and societal history

### Required Courses

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

- MUS 10 HARMONY I **3 Units** \*
- MUS 11 HARMONY II **3 Units** \*
- MUS 12 HARMONY III **3 Units** \*
- MUS 92 MUSICIANSHIP I **1 Unit** \*
- MUS 93 MUSICIANSHIP II **1 Unit** \*
- MUS 94 MUSICIANSHIP III **1 Unit** \*
- MUS 54A BEGINNING PIANO I (or proficiency exam) **0-2 Units**
- MUS 54B BEGINNING PIANO II (or proficiency exam) **0-2 Units\***
- MUS 55A INTERMEDIATE PIANO I (or proficiency exam) **0-2 Units\***
- MUS 55B INTERMEDIATE PIANO II (or proficiency exam) **0-2 Units\***

**Ensemble Requirement: Complete four semesters (4-8 units) from the following (including repeated classes):**

- MUS 35 CONTEMPORARY CHOIR **2 Units \***
- MUS 39 COMMERCIAL MUSIC ENSEMBLE **2 Units \***
- MUS 41 SYMPHONIC WIND ENSEMBLE **2 Units \***
- MUS 42 SYMPHONIC ORCHESTRA **2 Units \***
- MUS 47 SADDLEBACK COLLEGE BIG BAND **2 Units \***
- MUS 61 INTERMEDIATE CLASSICAL GUITAR **1 Unit \***
- MUS 62 ADVANCED CLASSICAL GUITAR **2 Units \***
- MUS 64 PIANO ENSEMBLE **1.5 Units \***
- MUS 65 PIANO ACCOMPANYING **1.5 Units \***
- MUS 66 CHAMBER MUSIC **2 Units \***
- MUS 140 IMPROVISED MUSIC IN A JAZZ COMBO **2 Units \***
- MUS 148 JAZZ ENSEMBLE **2 Units**
- MUS 182 SOUL MUSIC ENSEMBLE **2 Units \***
- MUS 184 ELECTRONIC MUSIC ENSEMBLE **2 Units \***
- MUS 187 MODERN ROCK AND POP MUSIC ENSEMBLE **2 Units \***
- MUS 197 REHEARSAL AND PERFORMANCE (JAZZ STUDIES) **1 Unit \***

**Restricted Electives: Select 4-6 units from the following courses:**

- MUS 14 JAZZ COMPOSITION AND ARRANGING **3 Units \***
- MUS 15 MUSIC COMPOSITION **3 Units \***
- MUS 50 APPLIED MUSIC **1 Unit \*** (may be taken up to 4 times)
- MUS 18 ADVANCED MUSIC COMPOSITION **3 Units \***
- MUS 117 POPULAR SONGWRITING **3 Units \***
- MUS 118 DIGITAL MULTI-TRACK MUSIC RECORDING **2.5 Units**
- MUS 130 MUSIC PRODUCTION I **2.5 Units**
- MUS 132 INTRODUCTION TO MUSIC TECHNOLOGY **2 Units**

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

**Total Units for the Major: 20-34**

Refer to Graduation Requirements for specific information regarding unit, scholarship, residence, and general education requirements.

**Associate of 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 of 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.

**Music**

**Associate in Arts for Transfer**

The curriculum in the Music program is designed to provide the transfer 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.

**Required Core (15 Units)**

- MUS 1 THE BASICS OF MUSIC **3 Units ♦**
- MUS 10 HARMONY I **3 Units \***
- MUS 11 HARMONY II **3 Units \***
- MUS 12 HARMONY III **3 Units \***
- MUS 92 MUSICIANSHIP I **1 Unit \***
- MUS 93 MUSICIANSHIP II **1 Unit \***
- MUS 94 MUSICIANSHIP III **1 Unit \***

**Applied Music: Four semesters required (4 units):**

- MUS 50 APPLIED MUSIC **1 Unit \***

**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 Units \*♦**
- or
- MUS 47 SADDLEBACK COLLEGE BIG BAND **2 Units \*♦**

### Two additional semesters may be selected from any of the following courses (4 units):

- MUS 35 CONTEMPORARY CHOIR **2 Units \***
- MUS 41 SYMPHONIC WIND ENSEMBLE **2 Units \***
- MUS 42 SYMPHONIC ORCHESTRA **2 Units \***
- MUS 47 SADDLEBACK COLLEGE BIG BAND **2 Units \***
  - ♦ Students must complete the California State University General Education – Breadth Requirements for this degree. Six units from the following courses must be applied towards the student's general education requirements in order to complete this degree within the prescribed 60 unit requirement for Associate Degrees for Transfer: MUS 1, MUS 35, and/or MUS 47.
  - \* Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

### Total Units for the Major 27

## Music Production Entrepreneurship Certificate of Achievement

The Music Production Entrepreneurship certificate prepares students to use industry-recognized software and hardware to create, edit, record, and perform music. Its entrepreneurial focus prepares students with the knowledge necessary to market, promote and monetize their music. The certificate will prepare students to enter the following occupations: music producer, professional musician, recording engineer, film composer, video game composer, electronic musician, music supervisor, music library owner or digital media composer/producer. The field of Music Production is inherently competitive, and completion of the program does not guarantee employment. Success in the occupations listed above is based on a number of factors including musical, technical and entrepreneurial ability.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Create, edit, record and perform music using a Digital Audio Workstation.
- Describe, analyze and discuss trends in electronic music production, including sampling, controllerism and drum programming.
- Analyze and evaluate various methods of music distribution.
- Discuss and identify various careers within the music industry.
- Analyze and illustrate various principles of the music industry including but not limited to music copyright, music publishing, music licensing, artist team and performing rights organizations.
- Compare models for digital music monetization and self-promotion.

### Required Courses

- MUS 120 INTRODUCTION TO THE MUSIC INDUSTRY **3 Units**
  - MUS 130 MUSIC PRODUCTION I **2.5 Units**
  - MUS 118 DIGITAL MULTI-TRACK MUSIC RECORDING **2.5 Units**
  - MUS 131 MUSIC PRODUCTION II **2 Units \***
  - CWE 180 CO-OP-ED COMMERCIAL MUSIC **2 Units**
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### Total Units for the Certificate: 12

## 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 amidi controller.
- Describe various roles in the music industry.
- Explain how to publish, market and promote musical compositions.

### Required Courses

- MUS 130 MUSIC PRODUCTION I **2.5 Units**
- MUS 131 MUSIC PRODUCTION II **2 Units \***
- MUS 120 INTRODUCTION TO THE MUSIC INDUSTRY **3 Units**

### Total Units for the Award: 7.5

## Nursing

The Nursing Program at Saddleback College offers a curriculum that qualifies the graduate to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The program provides graduates with the education necessary to become competent entry level registered nurses, to obtain employment in a variety of settings, and to provide quality patient centered care.

## Registered Nurse Associate in Science

The Nursing Program offers evidence based theory and clinical nursing courses that build upon a foundation of biological, psychological, and social sciences, as well as communication skills, and critical thinking, to prepare competent entry level professional registered nurses. The ADN Program focuses on a strong medical surgical foundation, and the application of nursing process across the lifespan in a variety of healthcare settings to deliver high quality health care. Leadership skills and lifelong learning are emphasized as the nurse takes on the role of the professional RN.

### Enrollment Procedures

In order to apply, a student must complete BIO 11\* (Anatomy), BIO 12\* (Physiology), BIO 15\* (Microbiology), and ENG 1A\* (Principles of Composition 1) or their equivalents with a grade of "C" or better. BIO 12\* (Physiology) must have been completed within the past seven years. Every required prerequisite and core class must be completed with a "C" or better.

Students qualified for application will be ranked according to their total points achieved on all of the admission criteria. Those with the highest scores will be admitted. The admission criteria includes: previous academic degrees, work experience/certificates, GPA in the science prerequisites, completion of relevant course work towards

the ADN degree, life experience, proficiency/course work in a second language, ATI-TEAS testing scores.

Applications will be taken each semester for approximately a two week period at the beginning of February (for fall admission) and the beginning of September (for spring admission). Procedures for applying to the Nursing program and applications packets are available in the Health Sciences and Human Services division office and on the Nursing program website. Prospective nursing students are encouraged to attend an RN Information Session.

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 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  
P. O. Box 944210  
Sacramento, CA 94244  
(916) 322-3350 or <http://www.rn.ca.gov>

Accrediting Commission for Education in Nursing, Inc.  
3343 Peachtree Road, NE, Suite 850  
Atlanta, Georgia 30326  
(404) 975-5000 or [www.acenursing.org](http://www.acenursing.org)

### 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.

### Required Prerequisites Prior to Nursing Clinical Sequence:

- BIO 11 HUMAN ANATOMY **4 Units** \*
- BIO 15 GENERAL MICROBIOLOGY **5 Units** \*
- BIO 12 HUMAN PHYSIOLOGY **4 Units** \*/\*\*\*
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*/\*\*\*\*  
or
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units** \*/\*\*\*\*

**Total Prerequisite Units: 17**

### Eligible for Entry into Nursing Clinical Sequence:

#### Semester I

- N 160 PHARMACOLOGY FOR NURSING **3 Units** \*/\*\*
- N 165 LIFECYCLE 1, FUNDAMENTALS OF AGING **1.5 Units** \*\*
- N 170 NURSING PROCESS **3 Units** \*
- N 170 NURSING PROCESS LAB **4.5 Units** \*#
- N 171 MENTAL HEALTH NURSING **2 Units** \*
- N 171 MENTAL HEALTH NURSING LAB **1 Unit** \*#

**Total Units for the Semester: 15**

#### Semester II

- PSYC 1 INTRODUCTION TO PSYCHOLOGY **3 Units** \*\*  
or
- PSYC 1H HONORS INTRODUCTION TO PSYCHOLOGY **3 Units** \*\*
- N 161 LIFECYCLE 2, GROWTH AND DEVELOPMENT **1.5 Units** \*\*
- N 172 MEDICAL-SURGICAL NURSING **3.5 Units** \*
- N 172 MEDICAL-SURGICAL NURSING LAB **5 Units** \*#

**Total Units for the Semester: 13**

#### Semester III

- N 173 NURSING CARE OF CHILDREN AND FAMILIES **1.5 Units** \*
- N 173 NURSING CARE OF CHILDREN AND FAMILIES LAB **2 Units** \*#
- N 174 WOMEN'S HEALTH NURSING **1.5 Units** \*
- N 174 WOMEN'S HEALTH NURSING LAB **2 Units** \*#

**Total Units for the Semester: 7**

#### Semester IV

- SP 1 COMMUNICATION FUNDAMENTALS **3 Units** \*\*  
or
  - SP 1H HONORS COMMUNICATION FUNDAMENTALS **3 Units** \*\*  
or
  - SP 5 INTERPERSONAL COMMUNICATION **3 Units** \*\*
  - N 176 ADVANCED NURSING **3 Units** \*
  - N 176 ADVANCED NURSING LAB **5 Units** \*#
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.  
\*\* Courses can be taken prior to entry into the program  
\*\*\* Human Physiology must have been completed within the last 7 years  
\*\*\*\* Freshman Composition 3-unit equivalent course will be accepted  
# Clinical course.

Selected clinical experiences in various hospitals, clinics, and community agencies are provided throughout the Nursing Program.

**Total Units for the Semester: 11**

**Total Units for the Major: 63**

### Associate of 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 of Science 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.



## Registered Nurse Certificate of Achievement

The Nursing Program offers evidence based theory and clinical nursing courses that build upon a foundation of biological, psychological, and social sciences, as well as communication skills, and critical thinking, to prepare competent entry level professional registered nurses. The Nursing Program focuses on a strong medical surgical foundation, and the application of nursing process across the lifespan in a variety of healthcare settings to deliver high quality health care. Leadership skills and lifelong learning are emphasized as the student nurse takes on the role of the professional RN.

### Enrollment Procedures

In order to apply, a student must complete BIO 11\* (Anatomy), BIO 12\* (Physiology), BIO 15\* (Microbiology), and ENG 1A\* (Principles of Composition 1) or their equivalents with a grade of "C" or better. BIO 12\* (Physiology) must have been completed within the past seven year. Every required prerequisite and core class must be completed with a "C" or better.

Students qualified for application will be ranked according to their total points achieved on all of the admission criteria. Those with the highest total points will be admitted. The admission criteria includes: previous academic degrees, work experience/certificates, GPA in the science prerequisites, completion of relevant course work towards the ADN degree, life experience, proficiency/course work in a second language, ATI-TEAS testing scores.

Applications will be taken each semester for approximately a two week period at the beginning of February (for fall admission) and the beginning of September (for spring admission). Procedures for applying to the Nursing program and application packets are available in the Health Sciences and Human Services division office and on the Nursing Program website. Prospective nursing students are encouraged to attend an RN Information Session.

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 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  
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3343 Peachtree Road, NE, Suite 850  
Atlanta, Georgia 30326  
404-975-5000 or [www.acenursing.org](http://www.acenursing.org)

### 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.

### Required prerequisites prior to Nursing Clinical Sequence:

- BIO 11 HUMAN ANATOMY **4 Units \***

- BIO 15 GENERAL MICROBIOLOGY **5 Units \***
- BIO 12 HUMAN PHYSIOLOGY **4 Units \*/\*\*\***
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units \*/\*\*\*\***  
or
- ENG 1AH HONORS PRINCIPLES OF COMPOSITION I **4 Units**

### Total Prerequisite Units: 17

### Eligible for Entry into Nursing Clinical Sequence:

#### Semester I

- N 160 PHARMACOLOGY FOR NURSING **3 Units \*/\*\***
- N 165 LIFECYCLE 1, FUNDAMENTALS OF AGING **1.5 Units \*\***
- N 170 NURSING PROCESS **3 Units \***
- N 170 NURSING PROCESS LAB **4.5 Units \*\***
- N 171 MENTAL HEALTH NURSING **2 Units \***
- N 171 MENTAL HEALTH NURSING LAB **1 Unit \*\***

### Total Units for the Semester: 15

#### Semester II

- PSYC 1 INTRODUCTION TO PSYCHOLOGY **3 Units \*\***  
or
- PSYC 1H HONORS INTRODUCTION TO PSYCHOLOGY **3 Units \*\***
- N 161 LIFECYCLE 2, GROWTH AND DEVELOPMENT **1.5 Units \*\***
- N 172 MEDICAL-SURGICAL NURSING **3.5 Units \***
- N 172 MEDICAL-SURGICAL NURSING LAB **5 Units \*\***

### Total Units for the Semester: 13

#### Semester III

- N 173 NURSING CARE OF CHILDREN AND FAMILIES **1.5 Units**
- N 173 NURSING CARE OF CHILDREN AND FAMILIES LAB **2 Units \*\***
- N 174 WOMEN'S HEALTH NURSING **1.5 Units \***
- N 174 WOMEN'S HEALTH NURSING LAB **2 Units \*\***

### Total Units for the Semester: 7

#### Semester IV

- SP 1 COMMUNICATION FUNDAMENTALS **3 Units \*\***  
or
- SP 1H HONORS COMMUNICATION FUNDAMENTALS **3 Units \*\***  
or
- SP 5 INTERPERSONAL COMMUNICATION **3 Units \*\***
- N 176 ADVANCED NURSING **3 Units \***
- N 176 ADVANCED NURSING LAB **5 Units \*\***

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

\*\* Courses can be taken prior to entry into the program

\*\*\* Human Physiology must have been completed within the last 7 years

\*\*\*\* Freshman Composition 3-unit equivalent course will be accepted

# Clinical course.

### Total Units for the Semester: 11

### Total Units for the Certificate: 63

Selected clinical experiences in various hospitals, clinics, and community agencies are provided throughout the Nursing Program.



## Licensed Vocational Nurse (LVN) to Registered Nurse (RN) 30-Unit Option Certificate of Achievement

### BRN Rules and Regulations

#### Section 1429 - Preparation Required for Licensed Vocational Nurses

- a. An applicant who is licensed in California as a vocational nurse is eligible to apply for licensure as a registered nurse if such applicant has successfully completed the courses prescribed below and meets all the other requirements set forth in Section 2736 of the code. Such applicant shall submit evidence to the board, including a transcript, of successful completion of the requirements set forth in subsection (c) and of successful completion or challenge of courses in physiology and microbiology comparable to such courses required for licensure as a registered nurse.
- b. The school shall offer objective counseling of this option and evaluate each licensed vocational nurse applicant for admission to its registered nursing program on an individual basis. A school's determination of the prerequisite courses required of a licensed vocational nurse applicant shall be based on an analysis of each applicant's academic deficiencies, irrespective of the time such courses were taken.
- c. The additional education required of licensed vocational nurse applicants shall not exceed a maximum of thirty (30) semester or forty-five (45) quarter units. Courses required for vocational nurse licensure do not count toward fulfillment of the additional education requirement. However, other courses comparable to those required for licensure as a registered nurse, as specified in Section 1426, may be counted toward fulfillment of the additional education requirement.

Nursing courses shall be taken in an accredited school and shall be beyond courses equivalent to the first year of professional nursing courses. The nursing content shall include nursing intervention in acute, preventive, remedial, supportive, rehabilitative, and teaching aspects of nursing. Theory and courses with concurrent clinical practice shall include advanced medical-surgical, mental health, psychiatric nursing, and geriatric nursing. The nursing content shall include the basic standards for competent performance prescribed in Section 1443.5 of these regulations.

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 challengeable. 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.

### Courses Required for the 30-Unit Option

#### Required Prerequisites

- BIO 12 HUMAN PHYSIOLOGY **4 Units** \*
- BIO 15 GENERAL MICROBIOLOGY **5 Units** \*
- N 162 SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING **1 Unit** \*
- N 162 SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING LAB **0.5 Unit** \*

#### Required Core Classes

- N 165 LIFECYCLE 1, FUNDAMENTALS OF AGING **1.5 Units**
- N 171 MENTAL HEALTH NURSING **2 Units** \*
- N 171 MENTAL HEALTH NURSING LAB **1 Unit** \*
- N 173 NURSING CARE OF CHILDREN AND FAMILIES **1.5 Units** \*\*
- N 173 NURSING CARE OF CHILDREN AND FAMILIES LAB **2 Units** \*\*
- N 174 WOMEN'S HEALTH NURSING **1.5 Units** \*\*
- N 174 WOMEN'S HEALTH NURSING LAB **2 Units** \*\*
- N 176 ADVANCED NURSING **3 Units** \*\*¥
- N 176 ADVANCED NURSING LAB **5 Units** \*\*¥

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

#Clinical course.

¥Fulfills the Management & Leadership and Advanced Medical-Surgical requirement.

### Total Units for the Certificate: 30

#### 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 • <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](mailto:info@acenursing.org) • [www.acenursing.org](http://www.acenursing.org)

## **Licensed Vocational Nurse (LVN) to Registered Nurse (RN) Advanced Placement Option**

### **Licensed Vocational Nurse (LVN) to Registered Nurse (RN) Advanced Placement Option**

The Nursing program is designed so that Licensed Vocational Nurses (LVNs) can enter as advanced placement students and continue their education so that upon graduation they are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Procedures for applying to the Nursing Program and application packets are available in the Health Sciences and Human Services division office and on the Nursing website. Prospective nursing students are encouraged to attend an LVN to RN Information Session.

LVN to RN students are admitted from a wait list on a space-available basis. To be placed on the wait list requires:

1. Proof of satisfactory completion of an accredited Vocational Nursing (VN) program or a current California VN license.
2. Completion of all the core science courses: BIO 11\*, 12\*, 15\*, and ENG 1A\* or equivalent, with a grade of "C" or better.
3. Completion of N 162\* (lecture), N 162\* (lab), and N 164\* with a grade of "C" or better within a maximum of 3 semesters of program entry.
4. Completion of matriculation testing.
5. Attendance at "LVN to RN" guidance session.
6. Overall GPA of 2.5 in science prerequisite courses.
7. Application submitted with Director/Assistant Director of Nursing.
8. Completion of standardized Pre Admission test validated by CCCCO at or above designated cut scores.
9. Proof of completion of a minimum of one (1) year of direct patient care.
10. Consideration will be given to each applicant's prior education in determining placement into the program. All classes are challengeable. Every required prerequisite and core class must be completed with a "C" or better. Students admitted under the Advanced Placement Option are eligible for either the Registered Nurse Certificate and/or Associate in Science Degree upon completion of program requirements.

### **Military Personnel Challenge /Advanced Placement**

Students with previous nursing education and experience, including relevant military health care education and experience are eligible to petition for advanced placement in the ADN program. See Nursing Program Website for specific policies and procedures.

## **Nutrition Associate in Science**

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.

## **Required Courses**

- FCS 115 CONSUMER ISSUES **3 Units**  
*or*
  - FCS 142 LIFE MANAGEMENT **3 Units**
  - WE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †
  - FN 50 FUNDAMENTALS OF NUTRITION **3 Units** †
  - FN 64 NUTRITION ISSUES AND CONTROVERSIES **3 Units**
  - FN 110 FOOD PREPARATION ESSENTIALS **3 Units** \*
  - FN 120 CONTEMPORARY MEALS **3 Units** \*
  - FN 160 NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS **3 Units**
  - FN 164 - SPORTS NUTRITION **2 Units**
  - FN 171 SANITATION AND SAFETY **2 Units**  
*or*
  - FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
  - FN 230 VEGETARIAN CUISINE **2 Units** \*
  - or*
  - FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units** \*
- \*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.  
† FN 50 recommended prior to CWE 180.

## **Total Units for the Major: 25-26**

### **Associate in Science Degree**

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

### **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 125, BUS 137; FN 140, FN 171; HLTH 1; KNES 107; PSYC 33; SP 1.

## **Nutrition and Dietetics Associate in Science for Transfer**

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.

Students who complete the Associate in Science in Nutrition and Dietetics 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.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify components of a healthy diet and lifestyle that lead to optimal health and chronic disease prevention.
- Analyze an individual's nutritional status and make appropriate dietary recommendations.
- Identify and analyze credible research on nutrition-related topics.

### 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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
  - b. A minimum of 18 semester 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 for the major or area of emphasis.

### Require Core (21 Units)

- FN 50 FUNDAMENTALS OF NUTRITION **3 Units**
- PSYC 1 INTRODUCTION TO PSYCHOLOGY **3 Units**  
*or*
- PSYC 1H HONORS INTRODUCTION TO PSYCHOLOGY **3 Units**
- CHEM 1A GENERAL CHEMISTRY **5 Units \***  
*and*
- CHEM 1B GENERAL CHEMISTRY **5 Units \***  
*or*
- CHEM 2 GENERAL CHEMISTRY PRINCIPLES **5 Units \***  
*and*
- CHEM 1B GENERAL CHEMISTRY **5 Units\***
- BIO 15 GENERAL MICROBIOLOGY **5 Units**

### List A: Select one course (3-5 units):

- CHEM 12A ORGANIC CHEMISTRY **5 Units \***
- BIO 11 HUMAN ANATOMY **4 Units \***
- BIO 12 HUMAN PHYSIOLOGY **4 Units \***
- MATH 10 INTRODUCTION TO STATISTICS **3 Units \***
- PSYC 44 STATISTICS FOR THE BEHAVIORAL SCIENCES **3 Units \***

### List B: Select one course (3 units):

- FN 110 FOOD PREPARATION ESSENTIALS **3 Units \***
- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**  
\*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### Total Units for the Major: 27-29

## Nutrition

### Certificate of Achievement

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.

### Required Courses

- FCS 115 CONSUMER ISSUES **3 Units**  
*or*
- FCS 142 LIFE MANAGEMENT **3 Units**
- CWE 180 CO-OP-ED FOODS AND NUTRITION **2 Units** †
- FN 50 FUNDAMENTALS OF NUTRITION **3 Units** †
- FN 64 NUTRITION ISSUES AND CONTROVERSIES **3 Units**
- FN 110 FOOD PREPARATION ESSENTIALS **3 Units \***
- FN 120 CONTEMPORARY MEALS **3 Units \***
- FN 160 NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS **3 Units**
- FN 164 - SPORTS NUTRITION **2 Units**
- FN 171 SANITATION AND SAFETY **2 Units**  
*or*
- FN 210 SERVSAFE IN FOOD PRODUCTION **1 Unit**
- FN 230 VEGETARIAN CUISINE **2 Units \***  
*or*
- FN 232 TECHNIQUES OF HEALTHY COOKING **2 Units**  
\*\*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.  
† FN 50 recommended prior to CWE 180.

### Total Units for the Certificate: 25-26

## Paramedic Associate of Science

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.

## Required Courses

- PM 220 PARAMEDIC THEORY **14 Units** \*†
- PM 230 PARAMEDIC CLINICAL EXPERIENCE **7.5 Units** \*†
- PM 240 PARAMEDIC FIELD INTERNSHIP **12 Units** \*†

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

†A minimum grade of "B" is required.

## Total Units for the Major: 33.5

## Associate of 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 of 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).

To contact CAAHEP:

1361 Park Street  
Clearwater, FL. 33756  
[www.caahep.org](http://www.caahep.org) (link is external)

To contact CoAEMSP:

8301 Lakeview Parkway, Suite 111-312  
Rowlett, TX 75088  
(214) 703-8845  
FAX (214) 703-8992  
[www.coaemsp.org](http://www.coaemsp.org)

The Saddleback College Paramedic Program is also regulated by the following outside agencies for accreditation and/or licensure requirements:

- California Code of Regulations  
Title 22, Social Security  
Division 9. Pre-Hospital Emergency Medical Services  
Chapter 4. Paramedic
- Orange County EMS Policies  
250.00  
520.00

## Paramedic Certificate of Achievement

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.

## Required Courses

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

†A minimum grade of "B" is required.

## Total Units for the Certificate: 33.5

## Accreditation

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- California Code of Regulations  
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Division 9. Pre-Hospital Emergency Medical Services  
Chapter 4. Paramedic
- Orange County EMS Policies  
250.00  
520.00



## Philosophy Associate in Arts

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.

### Required Courses

- PHIL 1 INTRODUCTION TO PHILOSOPHY **3 Units** \*
- PHIL 10 WORLD RELIGIONS **3 Units** \*
- PHIL 12 INTRODUCTION TO LOGIC **3 Units** \*

### Select a Minimum of 9 Units from the following:

- ENG 15A SURVEY OF AMERICAN LITERATURE - 1620-1860 **3 Units** \*
- ENG 15B SURVEY OF AMERICAN LITERATURE - 1860-CONTEMPORARY **3 Units** \*
- or*
- ENG 17A SURVEY OF ENGLISH LITERATURE - BEOWULF TO ROMANTIC MOVEMENT **3 Units** \*
- ENG 17B SURVEY OF ENGLISH LIT - ROMANTIC MOVEMENT TO THE PRESENT **3 Units** \*
- or*
- ENG 21A WORLD LITERATURE - ANCIENT TO 17TH CENTURY **3 Units** \*
- ENG 21B WORLD LITERATURE - 17TH CENTURY TO MODERN PERIOD **3 Units** \*
- HIST 4 WORLD HISTORY TO 1750 **3 Units**
- HIST 5 WORLD HISTORY FROM 1750 **3 Units**
- HUM 1 INTRODUCTION TO HUMANITIES **3 Units** \*
- PHIL 15 INTRODUCTION TO ETHICS **3 Units** \*

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

### Total Units for the Major: 18

### 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.

Suggested coursework not required for the major: Four college semesters, or the equivalent, of a foreign language are strongly recommended. Art history, English literature, history, interdisciplinary studies courses, and psychology or other social sciences are also recommended.

## Philosophy Associate in Arts 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. Majoring 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.

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

### Required Core: Select two (6 units):

- PHIL 12 INTRODUCTION TO LOGIC **3 Units** \*
- and*
- PHIL 1 INTRODUCTION TO PHILOSOPHY **3 Units** \*
- or*
- PHIL 15 INTRODUCTION TO ETHICS **3 Units** \*

### Group A: Select one of the following courses or any course from the Required Core not already used (3 units):

- PHIL 103 HISTORY OF ANCIENT PHILOSOPHY **3 Units**
- PHIL 104 HISTORY OF MODERN PHILOSOPHY **3 Units**

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

- HIST 62 EUROPEAN HISTORY TO 1650 **3 Units**
- HIST 63 EUROPEAN HISTORY SINCE 1650 **3 Units**
- PHIL 14 PHILOSOPHY OF RELIGION **3 Units** \*
- PHIL 10 WORLD RELIGIONS **3 Units** \*

### 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 Units** \*

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

### Total Units for the Major 18

## Photography Associate in Arts

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.

### Required Courses

- PHOT 25 HISTORY OF PHOTOGRAPHY **3 Units**
- PHOT 50 DIGITAL PHOTOGRAPHY I **3 Units**
- PHOT 51 INTRODUCTION TO PHOTOSHOP AND DIGITAL IMAGING **3 Units \***
- PHOT 55 DIGITAL PHOTOGRAPHY II **3 Units \***
- PHOT 156 DIGITAL PHOTOGRAPHY III **3 Units \***
- PHOT 152 INTERMEDIATE PHOTOSHOP AND DIGITAL IMAGING **3 Units \***
- or*
- PHOT 190 SPECIAL PROBLEMS IN PHOTOGRAPHY **3 Units \***
- Select one course from Restricted Electives **3 Units**

### Total Units for the Major: 21

### Restricted Electives

- PHOT 154 ALTERNATIVE DIGITAL PROCESSES **3 Units \***
  - PHOT 157 STUDIO LIGHTING **3 Units \***
- \*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.

Suggested coursework not required for the major: ART 80; JRN 1/CTVR 1.

## Physics Associate in Science

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.

### Required Courses

#### First Year

- CS 1A INTRODUCTION TO COMPUTER SCIENCE **3 Units**
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- PHYS 4A GENERAL PHYSICS **5 Units \***

#### Second Year

- MATH 3C ANALYTIC GEOMETRY AND CALCULUS **5 Units \***
- MATH 24 ELEMENTARY DIFFERENTIAL EQUATIONS **4 Units \***
- MATH 26 INTRODUCTION TO LINEAR ALGEBRA **4 Units \***
- PHYS 4B GENERAL PHYSICS **5 Units \***
- PHYS 4C GENERAL PHYSICS **5 Units \***

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

### Total Units for the Major: 41

### Associate in Science Degree

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

### 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.

## Physics

### Associate in Science 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.

### Required Courses

- PHYS 4A GENERAL PHYSICS **5 Units** \*
- PHYS 4B GENERAL PHYSICS **5 Units** \*
- PHYS 4C GENERAL PHYSICS **5 Units** \*
- MATH 3A ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MATH 3B ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*
- MATH 3C ANALYTIC GEOMETRY AND CALCULUS **5 Units** \*

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

**Total Units for the Major: 30**

### Political Science Associate in Arts

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.

### Required Courses

It is recommended that PS 1 be taken prior to or concurrently with a combination of courses to be selected from those listed below.

- PS 1 AMERICAN GOVERNMENT **3 Units**
- PS 4 INTRODUCTION TO POLITICAL SCIENCE **3 Units**
- PS 12 COMPARATIVE POLITICS AND GOVERNMENT **3 Units**
- PS 14 INTERNATIONAL RELATIONS **3 Units**
- Select from Restricted Electives **6 Units**

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

**Total Units for the Major: 18**

### Restricted Electives

ECON 2\*, 4\*, 11; HIST 16, 17; MATH 10\*, PS 10, 11, 80, SOC 1.

### 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.

### Political Science

### Associate in Arts for Transfer

The curriculum in the Political Science program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Political Science 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 in Political Science 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 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.

### Required Core

- PS 1 AMERICAN GOVERNMENT **3 Units**

### Group A: Select three of the following courses (9 units):

- PS 10 INTRODUCTION TO POLITICAL THEORY **3 Units**
- PS 12 COMPARATIVE POLITICS AND GOVERNMENT **3 Units**
- PS 14 INTERNATIONAL RELATIONS **3 Units**
- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*

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

- ECON 2 PRINCIPLES (MACRO) **3 Units** \*
- ECON 4 PRINCIPLES (MICRO) **3 Units** \*
- ES 1 MULTICULTURAL EXPERIENCES IN THE UNITED STATES **3 Units**
- ES 2 MULTICULTURAL IDENTITIES IN THE UNITED STATES **3 Units**
- ES 3 INTRODUCTION TO CHICANA(O)AND LATINA(O) CULTURES **3 Units**
- HIST 75 INTRODUCTION TO THE CONTEMPORARY MIDDLE EAST **3 Units**
- HIST 80 INTRODUCTION TO CONTEMPORARY AFRICA **3 Units**
- HIST 81 AFRICAN AMERICAN HISTORY **3 Units**
- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**
- WS 10 INTRODUCTION TO WOMEN'S STUDIES **3 Units**
- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**

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

**Total Units for the Major: 18**

## Psychology

### Associate in Arts 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 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:

- Compare and contrast the major theoretical perspectives in psychology.
- Differentiate psychology from pseudoscience.
- Demonstrate knowledge of basic research methods for gathering and evaluating data.
- Apply the principles of psychology to the diverse world in which they live.

#### Required Courses

- PSYC 44 STATISTICS FOR THE BEHAVIORAL SCIENCES **3 Units** \*
- or*
- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*
- PSYC 1 INTRODUCTION TO PSYCHOLOGY **3 Units**
- PSYC 2 RESEARCH METHODS IN PSYCHOLOGY **3 Units** \*

#### Group A: Select one of the following courses (4 Units):

- BIO 20 INTRODUCTION TO BIOLOGY **4 Units**
- PSYC 3 BIOLOGICAL PSYCHOLOGY **4 Units** \*

#### Group B: Select one of the following courses or any course from Group A not already used (3-4 Units):

- PSYC 7 DEVELOPMENTAL PSYCHOLOGY - CHILDHOOD THROUGH ADOLESCENCE **3 Units** \*
- PSYC 30 SOCIAL PSYCHOLOGY **3 Units** \*
- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**
- ENG 1A PRINCIPLES OF COMPOSITION I **4 Units** \*
- ENG 1B PRINCIPLES OF COMPOSITION II **3 Units** \*
- PHIL 12 INTRODUCTION TO LOGIC **3 Units**

#### Group C: Select one of the following courses or any course from Group A or B not already used (3-4 Units):

- PSYC 5 PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY **3 Units** \*
- PSYC 16 INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY **3 Units** \*
- PSYC 21 THE PSYCHOLOGY OF WOMEN **3 Units**
- PSYC 33 PSYCHOLOGY OF ADJUSTMENT **3 Units**
- PSYC 37 ABNORMAL BEHAVIOR **3 Units** \*
- PSYC 125 PSYCHOLOGY OF AGING **3 Units** \*
- ANTH 1 BIOLOGICAL ANTHROPOLOGY **3 Units**

- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**
- ANTH 3 CULTURE AND LANGUAGE **3 Units** \*
- ECON 2 PRINCIPLES (MACRO) **3 Units** \*
- ECON 4 PRINCIPLES (MICRO) **3 Units** \*
- GEOG 1 PHYSICAL GEOGRAPHY **3 Units**
- GEOG 2 CULTURAL GEOGRAPHY **3 Units**
- GEOG 3 WORLD REGIONAL GEOGRAPHY **3 Units**
- PHIL 1 INTRODUCTION TO PHILOSOPHY **3 Units** \*
- PHIL 15 INTRODUCTION TO ETHICS **3 Units** \*

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

**Total Units for the Major: 19-21**

## Real Estate

The Real Estate programs are designed to educate the student to become an effective real estate professional. The three programs are: Real Estate Appraisal, Real Estate Escrow, and Real Estate Sales/Broker.

### Real Estate Appraisal Associate of Science

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 Bureau of Real Estate Appraisers (BREA). Please note, the Bureau of Real Estate Appraisers requires applicable hours of experience along with qualifying coursework to sit for the state exam. Please refer to the BREA webpage for current requirements.

Potential careers that could be obtained with this degree include: Real Estate Appraiser.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Meet their career goals toward getting a job in the Real Estate appraisal industry.
- 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 following core competencies: General Real Estate law, the escrow process, landlord/tenant rights, real estate finance instruments, and the appraisal process.

#### Required Courses

- RE 176A REAL ESTATE APPRAISAL I **3 Units**
- RE 176B REAL ESTATE APPRAISAL II **3 Units**
- RE 176C REAL ESTATE APPRAISAL III MARKET ANALYSIS AND STUDIES **3 Units**
- RE 200 UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP) **1.5 Units**
- RE 174 LEGAL ASPECTS OF REAL ESTATE **3 Units**
- RE 175 REAL ESTATE FINANCE **3 Units**
- RE 170 REAL ESTATE PRINCIPLES **3 Units**

**Total Units for the Major: 19.5**



## Associate of 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 of 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.

### Real Estate Associate of Science

This Real Estate program is designed to educate the student to become an effective Real Estate professional. Activities related to the program are real estate practice, law, appraisal, finance, computations, escrow, investment, exchanging, and taxation. To qualify to sit for the California Broker's license exam, eight total classes and two years of full-time experience are required. Please check with the California Department of Real Estate for any changes.

Potential careers that could be obtained with this degree include: Real Estate Salesperson (residential or commercial), Real Estate Broker (residential or commercial), Title Insurance Representative, Property Manager, Real Estate Consultant, or Real Estate Entrepreneur.

## 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 Salesman 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 following core competencies: General Real Estate law, the escrow process, landlord/tenant rights, real estate finance instruments, and the appraisal process.

## Required Courses

- RE 170 REAL ESTATE PRINCIPLES **3 Units**
- RE 172 REAL ESTATE PRACTICE **3 Units**
- Select Broker Option (Must take all six courses) **18 Units**  
or
- Select Salesperson Option **12 Units**

**Total Units for the Major: 18-24**

## Broker Option (Students take all six courses):

- RE 174 LEGAL ASPECTS OF REAL ESTATE **3 Units**
- RE 175 REAL ESTATE FINANCE **3 Units**
- RE 176A REAL ESTATE APPRAISAL I **3 Units**
- RE 178 REAL ESTATE ECONOMICS **3 Units**
- RE 195 PROPERTY MANAGEMENT **3 Units**
- RE 190 ESCROW **3 Units**

or

## Salesperson Option (Students select four courses):

- RE 174 LEGAL ASPECTS OF REAL ESTATE **3 Units**
- RE 175 REAL ESTATE FINANCE **3 Units**
- RE 176A REAL ESTATE APPRAISAL I **3 Units**
- RE 176B REAL ESTATE APPRAISAL II **3 Units**
- RE 176C REAL ESTATE APPRAISAL III MARKET ANALYSIS AND STUDIES **3 Units**
- RE 178 REAL ESTATE ECONOMICS **3 Units**
- RE 190 ESCROW **3 Units**
- RE 195 PROPERTY MANAGEMENT **3 Units**
- RE 202 COMPUTER APPLICATIONS IN REAL ESTATE **3 Units**
- RE 250 REAL ESTATE LICENSE PREPARATION **3 Units**
- RE 280 MORTGAGE LOAN BROKERING AND LENDING **3 Units**

## Associate of 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 of Science 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.

### Real Estate Escrow Associate in Science

The Escrow program is designed to educate the student to become an effective escrow professional. Activities related to this field are escrow principles, practice, and professionalism. Associated courses in real estate, management, and office procedures are provided.

## 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 an Escrow Agent.
- 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.)
- Mastery of the skills necessary to become an Escrow Agent.

## Required Courses

- CIM 120 COMPUTER LITERACY **1.5 Units**
- CIM 121A KEYBOARDING FOR COMPUTERS - BEGINNING **1.5 Units**
- RE 170 REAL ESTATE PRINCIPLES **3 Units**
- RE 172 REAL ESTATE PRACTICE **3 Units**
- RE 174 LEGAL ASPECTS OF REAL ESTATE **3 Units**
- RE 175 REAL ESTATE FINANCE **3 Units**
- RE 190 ESCROW **3 Units**

**Total Units for the Major: 18**

## Associate in Science Degree

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

## 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: (Select two courses to meet the Educational Achievement Award requirements of the California Escrow Association): ACCT 1A, ACCT 214; BUS 104, BUS 12, BUS 125, BUS 160; RE 176A, RE 178.

## Real Estate Appraisal Certificate of Achievement

The Real Estate Appraisal certificate is designed to give students an introduction to the world of Real Estate Appraisal. Many of the courses included in this certificate apply toward educational requirements needed to sit for the Bureau of Real Estate Appraisers (BREA) state exam.

Potential careers that could be obtained with this certificate include: Real Estate Appraisal Assistant.

## Program Student Learning Outcomes

Students who complete this program will be able to:

- Meet their career goals toward getting a job in the Real Estate appraisal industry.
- 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 following core competencies: Understanding value, the appraisal process, property descriptions, data collection and analysis, construction terminology, approaches to value, opinion of value.

## Required Courses

- RE 176A REAL ESTATE APPRAISAL I **3 Units**
- RE 176B REAL ESTATE APPRAISAL II **3 Units**
- RE 176C REAL ESTATE APPRAISAL III MARKET ANALYSIS AND STUDIES **3 Units**
- RE 200 UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP) **1.5 Units**
- Restricted Electives: **3 Units**

**Total Units for the Certificate: 13.5**

## Restricted Electives

- RE 174 LEGAL ASPECTS OF REAL ESTATE **3 Units**
- RE 175 REAL ESTATE FINANCE **3 Units**
- RE 170 REAL ESTATE PRINCIPLES **3 Units**

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

## Real Estate Certificate of Achievement

This Real Estate certificate is designed to educate the student and provide the courses required to qualify for the California Salesperson's license exam. This certificate is geared towards the aspiring Real Estate professional, as well as investors and consumers.

Potential careers that could be obtained with this certificate include: Real Estate Salesperson (residential or commercial), Title Insurance Representative, Property Manager, Real Estate Consultant, or Real Estate Entrepreneur.

## 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 following core competencies: General Real Estate law, the escrow process, landlord/tenant rights, real estate finance instruments, and the appraisal process.

## Required Courses

- RE 170 REAL ESTATE PRINCIPLES **3 Units**
- RE 172 REAL ESTATE PRACTICE **3 Units**
- Select from Restricted Electives **6 Units**

**Total Units for the Certificate: 12**

## Restricted Electives: (Student select 2 courses):

- RE 174 LEGAL ASPECTS OF REAL ESTATE **3 Units**
- RE 175 REAL ESTATE FINANCE **3 Units**
- RE 176A REAL ESTATE APPRAISAL I **3 Units**
- RE 176B REAL ESTATE APPRAISAL II **3 Units**
- RE 176C REAL ESTATE APPRAISAL III MARKET ANALYSIS AND STUDIES **3 Units**
- RE 178 REAL ESTATE ECONOMICS **3 Units**
- RE 190 ESCROW **3 Units**
- RE 195 PROPERTY MANAGEMENT **3 Units**
- RE 202 COMPUTER APPLICATIONS IN REAL ESTATE **3 Units**
- RE 250 REAL ESTATE LICENSE PREPARATION **3 Units**
- RE 280 MORTGAGE LOAN BROKERING AND LENDING **3 Units**

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

## Real Estate Escrow Certificate of Achievement

The Escrow program is designed to educate the student to become an effective escrow professional. Activities related to this field are escrow principles, practice, and professionalism. Associated courses in real estate, management, and office procedures are provided.

### 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 an Escrow Agent.
- 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.)
- Mastery of the skills necessary to become an Escrow Agent.

### Required Courses

- CIM 120 COMPUTER LITERACY **1.5 Units**
- CIM 121A KEYBOARDING FOR COMPUTERS - BEGINNING **1.5 Units**
- RE 170 REAL ESTATE PRINCIPLES **3 Units**
- RE 172 REAL ESTATE PRACTICE **3 Units**
- RE 174 LEGAL ASPECTS OF REAL ESTATE **3 Units**
- RE 175 REAL ESTATE FINANCE **3 Units**
- RE 190 ESCROW **3 Units**

**Total Units for the Certificate: 18**

## Sociology Associate in Arts 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.

The Sociology Associate in Arts for Transfer can prepare students for related careers in social services, community work, corrections, business, college settings, health services, publishing, journalism, public relations, government services, teaching, and research. Some careers require advanced degrees (teaching credential, police academy, and Master's degree).

### Graduation Requirements

**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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- 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.

### Required Courses

- SOC 1 INTRODUCTION TO SOCIOLOGY **3 Units**
- SOC 2 SOCIAL PROBLEMS **3 Units**
- MATH 10 INTRODUCTION TO STATISTICS **3 Units** \*
- or
- PSYC 44 STATISTICS FOR THE BEHAVIORAL SCIENCES **3 Units** \*

### Select two of the following courses (6 Units):

- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**
- SOC 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**
- PSYC 30 SOCIAL PSYCHOLOGY **3 Units** \*
- or
- SOC 30 SOCIAL PSYCHOLOGY **3 Units** \*

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

- SOC 15 SOCIALIZATION OF THE CHILD **3 Units**
- SOC 21 WOMEN IN CONTEMPORARY SOCIETY **3 Units**
- SOC 23 FOOD AND SOCIETY **3 Units**
- SOC 25 SOCIAL STRATIFICATION **3 Units**
- SOC 125 SOCIOLOGY OF AGING **3 Units**
- SOC 126 DEATH AND DYING **3 Units**
- SOC 180 INTRODUCTION TO GERONTOLOGY **3 Units**
- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**
- ANTH 2H HONORS CULTURAL ANTHROPOLOGY **3 Units**
- ENV 1 INTRODUCTION TO ENVIRONMENTAL STUDIES **3 Units**

- GEOG 2 CULTURAL GEOGRAPHY **3 Units**  
*or*
- GEOG 2H HONORS CULTURAL GEOGRAPHY **3 Units**
- PSYC 2 RESEARCH METHODS IN PSYCHOLOGY **3 Units \***  
*or*
- PSYC 2H HONORS RESEARCH METHODS IN PSYCHOLOGY **3 Units \***
- WS 10 INTRODUCTION TO WOMEN'S STUDIES **3 Units**  
*or*
- WS 10H HONORS INTRO TO WOMEN'S STUDIES **3 Units**  
\*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Total Units for the Major: 18**

### **Theatre Arts Performance and Acting Associate in Arts**

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

#### **Required Courses**

- ETT 40 STAGECRAFT **4 Units**
- TA 1 FUNDAMENTALS OF ACTING **3 Units**
- TA 2 SCENE STUDY I **3 Units \***
- TA 11 STAGE MOVEMENT **3 Units**
- TA 43 STAGE MAKE-UP **1 Unit**
- Select from Appreciation and History **3 Units**
- Select from Rehearsal and Performance **.5-2 Units**
- Select from Acting **6 Units**
- Select from Restricted Electives **3 Units**

**Total Units for the Major: 26.5-28**

#### **Appreciation and History**

- TA 25 THEATRE HISTORY - PRIMITIVE TO RENAISSANCE **3 Units**
- TA 26 THEATRE HISTORY - RENAISSANCE TO CONTEMPORARY **3 Units**

#### **Rehearsal and Performance**

- ETT 142 THEATRE PRODUCTION **.5 or 1 Unit**
- TA 15 REHEARSAL AND PERFORMANCE: DRAMA **1 Unit**
- TA 16 REHEARSAL AND PERFORMANCE: COMEDY **1 Unit**
- TA 17 REHEARSAL AND PERFORMANCE: MIXED GENRES **1 Unit**
- TA 18 REHEARSAL AND PERFORMANCE: DANCE **1 Unit**
- TA 19 REHEARSAL AND PERFORMANCE: MUSICAL THEATRE **1 Unit**

#### **Acting**

- TA 3 SCENE STUDY II **3 Units \***
- TA 4 ACTING STYLES I **3 Units \***
- TA 5 ACTING STYLES II **3 Units \***
- TA 10 MUSICAL THEATRE TECHNIQUES **3 Units**
- TA 290 ACTING FOR TELEVISION AND FILM **3 Units \***

#### **Restricted Electives**

- ETT 41 LIGHTING DESIGN FUNDAMENTALS **3 Units**
- ETT 42 COSTUME DESIGN **3 Units**
- ETT 45 SCENE DESIGN **3 Units**
- ETT 101 FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE **3 Units**
- TA 102 STAGE MANAGEMENT **3 Units**

\*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.

Suggested coursework not required for the major: TA 12, TA 20, TA 22, TA 30, TA 32, TA 108, TA 110, TA 113, 130.



## Theatre Arts Technical Theatre Associate in Arts

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.

### Required Courses

- ETT 40 STAGECRAFT **4 Units**
- ETT 100 APPLIED TECHNICAL THEATRE PRODUCTION **3 Units\***
- ETT 142 THEATRE PRODUCTION **1 Unit**
- ETT 240 ADVANCED STAGECRAFT **3 Units \***
- TA 1 FUNDAMENTALS OF ACTING **3 Units**
- Select from Appreciation & History **3 Units**
- Select from Restricted Electives **3-6 Units**

**Total Units for the Major: 18-23**

### Appreciation and History

- TA 20 THEATRE APPRECIATION **3 Units**
- TA 25 THEATRE HISTORY - PRIMITIVE TO RENAISSANCE **3 Units**
- TA 26 THEATRE HISTORY - RENAISSANCE TO CONTEMPORARY **3 Units**

### Restricted Electives

- ETT 41 STAGE LIGHTING **3 Units**
- ETT 42 COSTUME DESIGN **3 Units**
- ETT 45 SCENE DESIGN **3 Units**
- ETT 101 FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE **3 Units \***
- ETT 104 COSTUME CRAFTS **3 Units**
- ETT 130 THEATRE MANAGEMENT **3 Units**
- ETT 144 THEATRE SCENERY PAINTING **2 Units**
- TA 102 Stage Management **3 Units**

\*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 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.

## Theatre Arts Associate in 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.

### Required Core Courses: (9 - 10 units)

- TA 20 THEATRE APPRECIATION **3 Units**
- TA 1 FUNDAMENTALS OF ACTING **3 Units**

### Select 3-4 units in Rehearsal and Performance Production; courses may be repeated:

- TA 15 REHEARSAL AND PERFORMANCE - DRAMA **2 Units \***
- TA 16 REHEARSAL AND PERFORMANCE - COMEDY **2 Units \***
- TA 17 REHEARSAL AND PERFORMANCE - MIXED GENRES **2 Units \***
- TA 18 REHEARSAL AND PERFORMANCE: DANCE **1 Unit**
- TA 113 REHEARSAL AND PERFORMANCE - CHILDREN'S THEATRE **2 Units \***

**OR**

### Select a maximum of 3 units in Technical Theatre in Production:

- ETT 142 THEATRE PRODUCTION **1 Unit**

### List A: Select three courses (9 units):

- TA 2 SCENE STUDY I **3 Units \***
- ETT 41 STAGE LIGHTING **3 Units \***
- ETT 42 COSTUME DESIGN **3 Units**
- ETT 40 STAGECRAFT **4 Units**

- TA 15 REHEARSAL AND PERFORMANCE - DRAMA **2 Units** \*
- TA 16 REHEARSAL AND PERFORMANCE - COMEDY **2 Units** \*
- TA 17 REHEARSAL AND PERFORMANCE - MIXED GENRES **2 Units** \*
- TA 18 REHEARSAL AND PERFORMANCE: DANCE **1 Unit** \*
- TA 113 REHEARSAL AND PERFORMANCE - CHILDREN'S THEATRE **2 Units** \*
- ETT 142 THEATRE PRODUCTION **1 Unit** •

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

### **Total Units for the Major: 18-19**

- 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 of Achievement**

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.

### **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.

### **Required Courses**

- ETT 40 STAGECRAFT **4 Units**
- ETT 100 APPLIED TECHNICAL THEATRE PRODUCTION **3 Units**
- ETT 103 ENTERTAINMENT INTERNSHIP **1 Unit**
- ETT 142 THEATRE PRODUCTION **1 Unit**
- ETT 240 ADVANCED STAGECRAFT **3 Units** \*
- TA 1 FUNDAMENTALS OF ACTING **3 Units**
- TA 20 THEATRE APPRECIATION **3 Units**
- Select from Appreciation & History **3 Units**
- Select from Restricted Electives **4-7 Units**

### **Total Units for the Certificate: 26.5-29.5**

### **Appreciation and History**

- ART 20 ART APPRECIATION **3 Units**
- CTVR 3 THE HISTORY AND APPRECIATION OF AMERICAN CINEMA **3 Units**
- DANC 64 HISTORY OF DANCE **3 Units**
- MUS 20 MUSIC APPRECIATION **3 Units**

- MUS 27 HISTORY OF JAZZ **3 Units**
- MUS 28 HISTORY OF ROCK **3 Units**
- TA 22 MUSICAL THEATRE HISTORY AND APPRECIATION **3 Units**

### **Restricted Electives**

- ETT 41 LIGHTING DESIGN FUNDAMENTALS **3 Units** \*
- ETT 42 COSTUME DESIGN **3 Units**
- ETT 101 FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE **3 Units** \*
- ETT 130 THEATRE MANAGEMENT **3 Units**
- ETT 144 THEATRE SCENERY PAINTING **2 Units**
- ETT 201 ENTERTAINMENT COMPUTER AIDED DRAFTING **2 Units**
- ETT 246 THEATRE AUDIO TECHNIQUES **3 Units** \*
- MUS 118/CTVR 118 SOUND RECORDING **4 Units**
- TA 102 STAGE MANAGEMENT **3 Units**

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

## **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.

### **First Semester**

- ETT 142 THEATRE PRODUCTION **1 Unit**
- ETT 144 THEATRE SCENERY PAINTING **2 Units**
- ETT 244 ADVANCED SCENERY PAINTING **3 Units** \*

### **Second Semester**

- ETT 142 THEATRE PRODUCTION **1 Unit**
- ETT 242 STYLES OF PAINT FOR THE ENTERTAINMENT INDUSTRY **3 Units** \*
- CWE 180 CO-OP-ED ENTERTAINMENT AND THEATRE TECHNOLOGY **2 Units**

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

### **Total Units for the Award: 12**

## Travel and Tourism Associate in Science

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.

### Required Courses

- CWE 180 COOPERATIVE WORK EXPERIENCE: TRAVEL AGENCY **1 Unit**
- TOUR 250 INTRODUCTION TO THE EXCITING WORLD OF TRAVEL & TOURISM **3 Units**
- TOUR 252 WORLD DESTINATIONS AND RESORTS--WESTERN HEMISPHERE **3 Units**
- TOUR 253 WORLD DESTINATIONS-EUROPE **3 Units**
- TOUR 254 WORLD DESTINATIONS-PACIFIC, ASIA, AFRICA, MIDDLE EAST **3 Units**
- TOUR 255 SELLING DREAMS - THE TRAVEL INDUSTRY **3 Units**
- TOUR 257 TOURS AND CRUISES **3 Units**
- TOUR 259 AIRLINE COMPUTER TRAINING **2 Units \***
- TOUR 260 ADVANCED AIRLINE COMPUTER TRAINING **2 Units \***

\*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: 23**

### Associate in Science Degree

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

### 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.

## Travel and Tourism Certificate of Achievement

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.

### Required Courses

- CWE 180 COOPERATIVE WORK EXPERIENCE: TRAVEL AGENCY **1 Unit**
- TOUR 250 INTRODUCTION TO THE EXCITING WORLD OF TRAVEL & TOURISM **3 Units**
- TOUR 252 WORLD DESTINATIONS AND RESORTS--WESTERN HEMISPHERE **3 Units**
- TOUR 253 WORLD DESTINATIONS-EUROPE **3 Units**
- TOUR 254 WORLD DESTINATIONS-PACIFIC, ASIA, AFRICA, MIDDLE EAST **3 Units**
- TOUR 255 SELLING DREAMS - THE TRAVEL INDUSTRY **3 Units**
- TOUR 257 TOURS AND CRUISES **3 Units**
- TOUR 259 AIRLINE COMPUTER TRAINING **2 Units \*†**
- TOUR 260 ADVANCED AIRLINE COMPUTER TRAINING **2 Units**

\*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 Certificate: 23**

### *Infant Toddler Teacher Certificate below*

continued from page 104

## Infant Toddler Teacher Certificate of Achievement

This certificate meets the education requirements of the Teacher level Child Development Permit issued by the California Commission on Teacher Credentialing (CTC). Developmental and learning theory as well as appropriate strategies related to the unique care and education needs of children ages 0-36 months will be studied and applied. Family collaboration and relationship-based practices will be emphasized. This certificate prepares students to be competent and effective teachers and caregivers of infants and toddlers in a variety of home and center-based settings. Additional work with children is required to obtain CTC's Teacher Permit.

A minimum grade of "C" in each course is required to earn the certificate and/or qualify for the Child Development Permit.

### 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.

### Core Courses

- CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN **3 Units \***
- CDE 15 CHILD, FAMILY, AND COMMUNITY **3 Units \***
- CDE 7 CHILD GROWTH AND DEVELOPMENT **3 Units \***  
*or*
- CDE 7H HONORS CHILD GROWTH AND DEVELOPMENT **3 Units \***
- CDE 110 INTRODUCTION TO CURRICULUM **3 Units \***
- CDE 111 CHILD GUIDANCE AND COMMUNICATION **3 Units \***
- CDE 112 HEALTH, SAFETY, AND NUTRITION **3 Units \***
- CDE 117 TEACHING IN A DIVERSE SOCIETY **3 Units \***
- CDE 120 OBSERVATION AND ASSESSMENT **3 Units \***
- CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE **5 Units \***
- CDE 123 INFANT AND TODDLER DEVELOPMENT **3 Units \***
- CDE 133 CARE AND EDUCATION FOR INFANTS AND TODDLERS **3 Units \***
- Select from Required Breadth **16-19 Units**

### Total Units for the Certificate: 51-54

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

### Required Breadth

Students must complete area 1, select one course from each of areas 2, 3, and 4, and select one additional course from area 2, 3, or 4. **16-19 Units**

#### Area 1

- ENG 1A\* PRINCIPLES OF COMPOSITION I **4 Units**  
*or*
- ENG 1AH\* HONORS PRINCIPLES OF COMPOSITION I **4 Units**

#### Area 2

- MATH 10\* INTRODUCTION TO STATISTICS **3 Units**  
*or*
- MATH 14\* MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS **5 Units**  
*or*

- MATH 103\* MATHEMATICAL IDEAS **3 Units**  
*or*
- PSYC 44\* STATISTICS FOR THE BEHAVIORAL SCIENCE **3 Units**  
*or*
- ANTH 1 BIOLOGICAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 1H HONORS BIOLOGICAL ANTHROPOLOGY **3 Units**  
*or*
- ENV 18 INTRODUCTION TO ECOLOGY **4 Units**  
*or*
- GEOG 1 PHYSICAL GEOGRAPHY **3 Units**  
*or*
- GEOG 1H HONORS PHYSICAL GEOGRAPHY **3 Units**  
*or*
- GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY **4 Units**  
*or*
- GEOL 20 INTRODUCTION TO EARTH SCIENCE **4 Units**  
*or*
- HORT 20 INTRODUCTION TO HORTICULTURAL SCIENCE **4 Units**

#### Area 3

- ANTH 2 CULTURAL ANTHROPOLOGY **3 Units**  
*or*
- ANTH 2H HONORS CULTURAL ANTHROPOLOGY **3 Units**  
*or*
- GEOG 2 CULTURAL GEOGRAPHY **3 Units**  
*or*
- GEOG 2H HONORS CULTURAL GEOGRAPHY **3 Units**  
*or*
- SOC 10 INTRODUCTION TO MARRIAGE AND THE FAMILY **3 Units**  
*or*
- SOC 20 ETHNIC CULTURES OF THE UNITED STATES **3 Units**  
*or*
- SOC 30 SOCIAL PSYCHOLOGY **3 Units**  
*or*
- PS 1 AMERICAN GOVERNMENT **3 Units**  
*or*
- PS 1H HONORS AMERICAN GOVERNMENT **3 Units**

#### Area 4

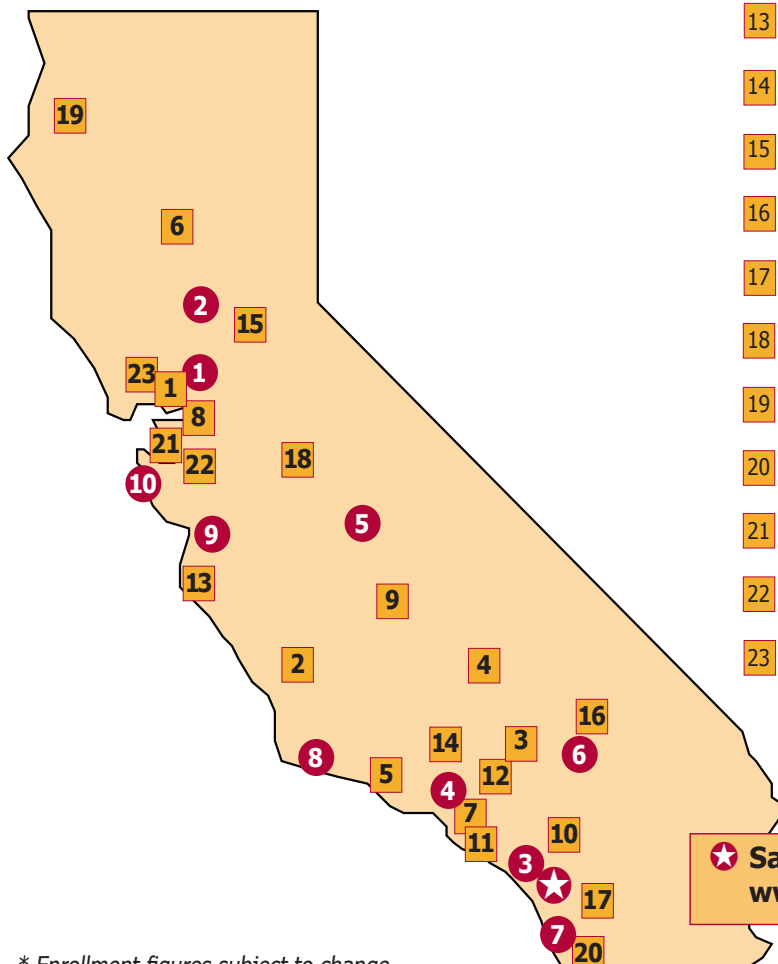
- ENG 142\* CHILDREN'S LITERATURE **3 Units**  
*or*
- ARTH 20 ART APPRECIATION **3 Units**  
*or*
- MUS 1 THE BASICS OF MUSIC **3 Units**  
*or*
- MUS 20 MUSIC APPRECIATION **3 Units**  
*or*
- DANC 64 HISTORY OF DANCE **3 Units**  
*or*
- HORT 115 HISTORY OF LANDSCAPE DESIGN **3 Units**  
*or*
- ID 110 FUNDAMENTALS OF INTERIOR DESIGN **3 Units**  
\*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.



## 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](http://www.berkeley.edu)
- 2 University of California, Davis** (1908) • (530) 752-1011  
Quarter Enrollment 35,415 • [www.ucdavis.edu](http://www.ucdavis.edu)
- 3 University of California, Irvine** (1965) • (949) 824-5011  
Quarter Enrollment 30,757 • [www.uci.edu](http://www.uci.edu)
- 4 University of California, Los Angeles** (1919) • (310) 825-4321  
Quarter Enrollment 43,239 • [www.ucla.edu](http://www.ucla.edu)
- 5 University of California, Merced** (2004) • (209) 228-4400  
Semester Enrollment 6,268 • [www.ucmerced.edu](http://www.ucmerced.edu)
- 6 University of California, Riverside** (1954) • (951) 827-1012  
Quarter Enrollment 21,297 • [www.ucr.edu](http://www.ucr.edu)
- 7 University of California, San Diego** (1964) • (858) 534-2230  
Quarter Enrollment 31,502 • [www.ucsd.edu](http://www.ucsd.edu)
- 8 University of California, Santa Barbara** (1944) • (805) 893-8000  
Quarter Enrollment 22,225 • [www.ucsb.edu](http://www.ucsb.edu)
- 9 University of California, Santa Cruz** (1965) • (831) 459-0111  
Quarter Enrollment 17,866 • [www.ucsc.edu](http://www.ucsc.edu)
- 10 University of California, San Francisco** • (415) 476-9000  
is a graduate/professional institution requiring pre-professional preparation or graduate standing for admission.  
Post Grad 4,636 • [www.ucsf.edu](http://www.ucsf.edu)



### California State University\* – 23 Campuses

- 1 California Maritime Academy** (1929) • (707) 654-1330  
Semester Enrollment 1,046 • [www.csum.edu](http://www.csum.edu)
- 2 California Polytechnic State University, San Luis Obispo** (1901)  
(805) 756-2311 • Quarter Enrollment 20,186 • [www.calpoly.edu](http://www.calpoly.edu)
- 3 California State Polytechnic University, Pomona** (1938)  
(909) 869-3210 • Quarter Enroll. 22,156 • [www.cpp.edu](http://www.cpp.edu)
- 4 California State University, Bakersfield** (1965) • (661) 664-2011  
Semester Enrollment 8,720 • [www.csub.edu](http://www.csub.edu)
- 5 California State University, Channel Islands** (2002) • (805) 437-8400  
Semester Enrollment 5,140 • [www.csuci.edu](http://www.csuci.edu)
- 6 California State University, Chico** (1887) • (530) 898-4636  
Semester Enrollment 17,287 • [www.csuchico.edu](http://www.csuchico.edu)
- 7 California State University, Dominguez Hills** (1960) • (310) 243-3300  
Semester Enrollment 14,670 • [www.csudh.edu](http://www.csudh.edu)
- 8 California State University, East Bay** (1957) (formerly CSU Hayward)  
(510) 885-3000 • Quarter Enrollment 14,526 • [www.csueastbay.edu](http://www.csueastbay.edu)
- 9 California State University, Fresno** (1911) • (559) 278-4240  
Semester Enrollment 23,179 • [www.csufresno.edu](http://www.csufresno.edu)
- 10 California State University, Fullerton** (1957) • (657) 278-2300  
Semester Enrollment 38,128 • [www.fullerton.edu](http://www.fullerton.edu)
- 11 California State University, Long Beach** (1949) • (562) 985-4111  
Semester Enrollment 35,586 • [www.csulb.edu](http://www.csulb.edu)
- 12 California State University, Los Angeles** (1947) • (323) 343-3000  
Semester Enrollment 23,258 • [www.calstatela.edu](http://www.calstatela.edu)
- 13 California State University, Monterey Bay** (1995) • (831) 582-3330  
Semester Enrollment 6,631 • [www.csUMB.edu](http://www.csUMB.edu)
- 14 California State University, Northridge** (1958) • (818) 677-1200  
Semester Enrollment 38,310 • [www.csun.edu](http://www.csun.edu)
- 15 California State University, Sacramento** (1947) • (916) 278-6011  
Semester Enrollment 28,811 • [www.csus.edu](http://www.csus.edu)
- 16 California State University, San Bernardino** (1960) • (909) 537-5000  
Quarter Enrollment 18,398 • [www.csusb.edu](http://www.csusb.edu)
- 17 California State University, San Marcos** (1989) • (760) 750-4000  
Semester Enrollment 10,610 • [www.csusm.edu](http://www.csusm.edu)
- 18 California State University, Stanislaus** (1957) • (209) 667-3122  
4-1-4 Enrollment 8,917 • [www.csustan.edu](http://www.csustan.edu)
- 19 Humboldt State University** (1913) • (707) 826-3011  
Semester Enrollment 8,293 • [www.humboldt.edu](http://www.humboldt.edu)
- 20 San Diego State University** (1897) • (619) 594-5000  
Semester Enrollment 32,576 • [www.sdsu.edu](http://www.sdsu.edu)
- 21 San Francisco State University** (1899) • (415) 338-1111  
Semester Enrollment 29,905 • [www.sfsu.edu](http://www.sfsu.edu)
- 22 San Jose State University** (1857) • (408) 924-1000  
Semester Enrollment 32,713 • [www.sjsu.edu](http://www.sjsu.edu)
- 23 Sonoma State University** (1960) • (707) 664-2880  
Semester Enrollment 9,120 • [www.sonoma.edu](http://www.sonoma.edu)

★ **Saddleback College**  
[www.saddleback.edu](http://www.saddleback.edu)

\* Enrollment figures subject to change

## Articulation/Transfer Patterns

### Transfer Planning

- I. Transfer students, that is, students planning to enter a university or four-year college after attending Saddleback College, should take note of the following 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](http://www.assist.org) which is the official California statewide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU transferable courses and major preparation. Students are advised to contact a Saddleback College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.
  - E. Note any policies regarding the maximum number of units which may be transferable. A maximum of 70 transferable units completed at the community college level may be applied toward the total number of units required for a bachelor's degree by the University of California or the California State University. Subject credit for transferable courses in excess of 70 units may also be granted to satisfy university graduation requirements. Any courses accepted as equivalent to those offered in lower-division by the university completed at the community college, even if beyond the 70-unit maximum, will be applied where needed to meet specific lower-division major and/or general education/breadth requirements. **Therefore, students are strongly advised to complete all courses designated as required lower-division preparation for the major prior to transfer, especially where admission to the major is contingent on completion of specific courses.**
- II. Students should also avail themselves of opportunities to meet with representatives of colleges and universities which are scheduled throughout the academic year in the Transfer Center.
- III. Catalogs 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.
- IV. Student Responsibility for Meeting Transfer Requirements: All students must assume complete responsibility for compliance with regulations and instructions set forth in university or college catalogs for their intended transfer institution, and for selecting the courses which will permit them to meet their educational objectives and for satisfying prerequisites for any programs or courses which they plan to take for transfer.

*The following information is subject to change*

## The California State University

(Refer to the California CSU/UC map)

### \*Application Filing Periods

(Applications first accepted):

Summer Semester or Quarter	February 1-28
Fall Semester or Quarter	October 1- November 30
Winter Quarter	June 1 - June 30
Spring Semester or Quarter	August 1 - August 30

\*You are urged to file early. Applications to impacted majors must be filed during the initial filing period. The CSU designates major programs as impacted when more applications are received in the initial filing period from CSU eligible applicants than can be accommodated. If applying after the initial filing period, consult the campus admissions office or website for current information. Except for impacted majors, campuses accept applications until enrollment categories are filled. Most campuses will acknowledge receiving your application within two to four weeks. Summer, winter and spring semester/quarter, is not always open for admissions. For more details refer to the CSU application website at <http://www.calstate.edu/apply>

### 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: <http://calstate.edu/apply> 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 CSU General Education Requirements

### (The Following Information is Subject to Change)

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](http://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.

### 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 1H or 5 (formerly 105)

**A2 Written Communication** - ENG 1A or ENG 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 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):

<b>B1 Physical Science</b>	
ASTR 1♦, 20, 20 and 25♦, 21, <u>45</u> , <u>145</u> ♦	GEOL 1♦, 2♦, 3, 4, <u>5</u> ♦, <u>6</u> ♦ [S07], 7, 20♦, 21, 23♦ [F89]
CHEM 1A♦, 1B♦, 2♦, <u>2A</u> ♦, <u>2B</u> ♦, 3♦, <u>8</u> ♦, 12A♦, 12B♦, 13, <u>20</u> ♦, 108♦, <u>120</u> ♦	MS <u>1</u> ♦, 4♦, 20♦
ENV 23♦ [F89], <u>120</u> ♦	PHYS 1A♦, 1B♦, 2A♦, 2B♦, [ <sup>^</sup> F91], <u>3A</u> ♦, 4A♦, 4B♦ [ <sup>^</sup> F91], 4C♦ [S07], 20♦, <u>21</u> ♦
GEOG 1 or 1H, 1 and 1L♦, <u>20</u>	

^Retroactive

<b>B2 Biological Science</b>	
ANTH 1 or 1H, 1 and 1L♦, <u>10A</u> ♦ (formerly 110A)	HORT 20♦
BIO 3A♦ or 3AH♦, (1A♦ prior to F03, 5♦ prior to F94), 3B♦ or 3BH♦ (1B♦ prior to F03, 2♦ prior to F94), 3C♦ [S07], 4A♦, 4B♦, <u>6</u> ♦ (prior to F95), 11♦, 12♦, 15♦, <u>16</u> ♦, <u>18</u> ♦, 19♦, 20♦, 22 (formerly 41), <u>24</u> , 28 [F14], 30, 31♦, 40, 43, 113♦ [F03]	MS <u>3</u> ♦
ENV 18♦, <u>19</u> ♦, #24♦	PSYC 3 ♦ [F10]

#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 or 3AH, 3B, 3C, 4B, 5, 6A, 6B, 7, 8, 9, 10, 11, 12, 14 (formerly 112), 24, 26, 103, 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):

<b>C1 Arts</b>	
ARCH 12 (formerly 112)	GD 1, 2 [F17]
ART <u>1</u> , 4	HORT 115 [F12]
ARTH 20, 21, 22, 23, 24, 25, 26, 27, <u>28</u> , 29, 30 (formerly 103 [F16]), 32 (formerly 104 [F16])	ID 110, 122, 125
CTVR 2, 3, (formerly CA 30), 5, 7(formerly CA 27), 9 (formerly CA 29)	MUS 1, <u>19</u> , 20, <u>21</u> , <u>22</u> , 23, 24, <u>25</u> , <u>26</u> , 27, 28, <u>29</u> [F90], 31, 32, 33, 34, 35, <u>40</u> , 47, <u>49</u> , <u>90</u> , <u>91</u>
DANC 64 (formerly PE/TA 64), 74 [F16]	PHOT 25
FA <u>20</u> , 27	SP 32
FASH 114 [F93] (formerly CT 144)	TA 10, 11, 20, <u>21</u> (prior to Fall 93), 22, 25, 26, 32, <u>110</u>

<b>C2 Humanities</b>	
ARAB 1 [F90], <u>1A</u> [F90], <u>1B</u> [F90], 2 [F90], 3 [S07], 4 [S07], 10, 21	JA 1 [F89], <u>1A</u> [F89], <u>1B</u> [F89], 2, [F89] ^3, ^4, <u>10</u> [F90], 21
CHI 1 [F89], <u>1A</u> [F89], <u>1B</u> [F89], 2 [F89], 3 [F07], 4 [F07], 21	KOR 1 [F09], <u>1A</u> , <u>1B</u> , 2 [F09], 3, 4, 21 [F96]
ENG 3, 4, <u>5</u> , 7, 15A, 15B, 17A, 17B, 18, 19, <u>20</u> , 21A, 21B, <u>21C</u> , <u>21D</u> , <u>21E</u> , <u>22</u> , <u>23A</u> , <u>23B</u> , 24, 25, 27A or 27AH, <u>27B</u> , <u>27C</u> , <u>27D</u> , <u>27E</u> , <u>27F</u> , <u>29</u> , <u>31</u> (was 131A), <u>31B</u> , <u>32</u> , <u>33</u> , <u>34</u> , <u>35</u> , <u>36</u> , <u>40</u> , <u>41</u> , 44, 46, 47, 48, <u>50</u> , 52, <u>54</u> , <u>56</u> , <u>131A</u> , <u>131B</u> , <u>132</u> , <u>134</u> , <u>135</u> , <u>136</u> , 142 (was 42)	LAT <u>1</u> [F90], <u>1A</u> [F90], <u>1B</u> [F90], <u>2</u> [F90]
FR 1*, <u>1A*</u> , <u>1B*</u> , 2*, 3, 4, 10, <u>20</u> (prior to F07), ^21	PHIL 1 or 1H, 2(formerly 103), <u>3</u> , <u>4</u> , 5 (formerly 105), <u>8</u> , <u>9</u> , 10, 14, 15
GER 1*, <u>1A*</u> , <u>1B*</u> , 2*, 3, 4, <u>10</u> , <u>21</u>	PORT 1, 2, 3, 4, 21
HEBR 1 [F89], <u>1A</u> [F89], <u>1B</u> [F89], 2 [F89], 3 [F09], <u>4</u> [F09], <u>21</u>	PRSN 1, 2, 3, 4, 21
HIST 4 [F93], 5 [F93], 16 [F16], 17 [F16]	RUS <u>1</u> [F90], <u>1A</u> [F90], <u>1B</u> [F90], <u>2</u> [F90]
HON 11H, 12H, 13H, 14H, 15H, 16H	SL 1 [F93] (was 32), 2 (was 33), 3, (was 34), 4 (was 35)
HUM 1, 2 [F12], 3, <u>4</u> , <u>5</u> , <u>10A</u> , <u>10B</u> , 21, 22, 25, <u>30AH</u> , 30 BH, 30CH, <u>31AH</u> , 31BH, 31CH	SPAN 1* (or <u>1A*</u> and <u>1B*</u> ) or 1H, 2* or 2H, 3, 4, 10, 11, 20A (formerly 20), 20B, 21A, 21B, 21C
IDS <u>1</u> , <u>2</u> , <u>3</u> , <u>5</u>	SP 30, <u>31</u>
ITA 1*, <u>1A*</u> , <u>1B*</u> , 2*, 3, 4, <u>10</u> , 21	TA <u>30</u> , <u>31</u>

^Reinstated

Underlined courses are no longer offered at Saddleback College

**AREA D: SOCIAL SCIENCES**

At least three courses totaling a minimum of nine units are required. Courses from two different subjects required.

ANTH 2 or 2H, 3, 4, 5 [F08], 6, 7 [S07], 8, 9, 10, 13 [S07], 14 [F03], 15 [F13], 17 [F13], ANTH <u>20</u> /SP 20 (formerly 109), 21	HIST <u>7</u> , 8, 9, <u>10</u> [S07], 11, 12, 15 [S07], 16, 17, <u>18</u> , 19, 20, 21, 22, <u>25</u> , <u>26</u> (prior to S89), 27, 28, 29, 30, <u>31</u> , 32, 33 [F01], <u>40</u> , 41, <u>60</u> , HIST 61/PS <u>61</u> (prior to F10), 62 [F03], 63 [F03], 70, 71, 72, 74 (prior to F90), HIST 75/PS <u>75</u> , 80, 81
CDE 7+ (formerly CD 7, 107) or 7H, 15 (formerly CD 105)	HD <u>7</u> , <u>15</u>
CTVR 1/JRN 1	HS 100 (prior to F86), 120 (prior to F86)
JRN 1/CTVR 1	PS 1 or 1H, <u>2</u> , 4, <u>9</u> , <u>10</u> [S07], 10H, PS/ECON 11(prior to F09), 12, 14, <u>17</u> , <u>21</u> , PS <u>75</u> /HIST 75
ECON 2 or 2H, 4 (formerly 1) or 4H, <u>ECON 6</u> /ENV 6, ECON 11 (prior to F09)/PS 11, 20 (MGT 100 prior to F86)	PSYC 1 or 1H, 2 or 2H, 3* (prior to F12), 4, 5+ [F05], 7+, 16# (formerly 116) [S07], 21, PSYC/SOC 30, 33 [S07], 37 [S07], 125
ENV 1, ENV/ <u>ECON 6</u> , <u>20</u> [F90], <u>21</u> , ENV/SOC <u>22</u> , <u>35</u> , <u>36</u> [F96]	SP 20/ANTH <u>20</u> (formerly 109), <u>109</u>
ES (formerly CCS) 1, <u>2</u> , 3, <u>10</u>	SOC 1, 2**, 4, 5** [F04], 6, 10, 15, 20, 21 SOC/ENV <u>22</u> , 23 [F17], 25 [F05], SOC/PSYC 30, <u>100</u> (prior to F88), <u>120</u> (prior to F88), 125
GEOG 2 or 2H, 3, 38	WS 10 or 10H, 11H (formerly 111H), 15, <u>21</u> , 31, <u>40</u>
GLST 1, 2	

\*\*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 units are required to complete Area E. A maximum of 2 units of DANC/KNES/KNEA/PE activity courses are permitted):

BUS 16 (formerly 116 [F02])	HLTH 1, 3; HLTH/HSC <u>105</u> , HSC <u>120</u>
CDE 7+ (formerly CD 7, 107) or 7H	HS 175 [F95]
COUN 140, <u>145</u> , 150, 151, 160, <u>162</u> , <u>163</u> , <u>165</u>	KNES/KNEA (for PE or PESS see www.assist.org) The following courses are accepted beginning F09 unless indicated otherwise: 107 [F06], or select one from: KNES 1 [F06], 2 [F06], 3 [F06], 4 [F06], 5 [F06], 6 [F06], 7 [F06], 8 [F06], 9 [F06], 10[F17], 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 [F06], 29 [F06], <u>30</u> , 31[F17], 33[F17], 34[F17], 37[F17], 38[F17], 39[F17], 41, 42, 44[F17], <u>45</u> , 49[F17], 50 [F06], 63, 65[F17], 66[F17], 68[F17], 69[F17], 70, 71, 72, <u>74</u> , <u>75</u> , 76, 77, 78, 79, <u>80</u> , 81, 84[F17], 88, 89[F17], 90 [F06], 91[F17], 95[F17], 97[F17], 93 [F06], 94 [F06] 187[F17], 199[F17]; or DANC 63 (formerly PE/TA 63), 74; or KNEA 1 [F06], 2, 4, 5, 6, 107 [F06], 151/HSC 151
DANC The following courses are accepted beginning F15 unless indicated otherwise: 38, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 62, 63 (formerly PE/TA 63) (prior to F12)	N 161, 165
FASH 141 (formerly CFR/FCS 140)	PSYC 5 + [F05], 7+ [F05], 33+
FCS 115, <u>140</u> (prior to F07), 142 [F97]	SOC 126, 180
FN 50, 64, 169 [F18]	WS <u>30</u> , <u>100</u> , 120, <u>135</u>

+ 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

## Certification of CSU General Education Requirements

**No student will be eligible to petition for certification of the CSU General Education requirements until a minimum of 12 semester units have been completed at Saddleback College.**

Saddleback College will certify coursework completed at another California community college or any institution that participates in certifying general education coursework to the CSU, including CSU campuses other than the one to which the student is transferring, only if the courses are on the approved CSU general education list at the college where they were completed in the year when taken. Such a course will be certified in the General Education-Breadth area that is shown on the official certification list for the institution at which it was taken.

When coursework has been taken at a regionally accredited institution that does not maintain a CSU certification list, Saddleback College can certify coursework on a California State University or an approved California Community College general education course list or approved by Saddleback College faculty as meeting CSU general education-breadth certification standards.

Coursework from Irvine Valley College or other community colleges with the same course number and/or title may not always be certified in the same category at Saddleback College for CSU G.E. Certification. Also similar coursework from accredited independent or private colleges will not always be certified unless the course content is deemed equivalent.

Students meeting area requirements may petition for partial certification in one or more of the areas (i.e., Area B, C, D, or E), but the college will not certify course requirements short of an entire area. The institution to which a student transfers will require completion of the requirement in those sections which are not certified and may require additional specific courses as required of native students.

### 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](http://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

\*Limited

Fall Quarter:	November 1-30
Winter Quarter*	July 1-31
Spring Quarter*	October 1-31
UC Berkeley accepts applications for Fall only	
Fall Semester:	November 1-30

For further information regarding the application and admissions process, refer to the UC's online undergraduate application website at [www.universityofcalifornia.edu](http://www.universityofcalifornia.edu)

### Eligibility for Transfer

**California Residents:** To qualify for admission to the University as a transfer student, a student must meet one of the following three sets of requirements. The pathway a student follows depends upon whether they were eligible for admission to the UC when they graduated from high school. California residents must have at least a "C" (2.0) average in all transferable college coursework.

1. Students who were eligible for admission to the University when they graduated from high school [meaning they satisfied the Subject, Scholarship, and Examination requirements, or were identified by the University during the senior year in high school as eligible under the Eligibility in the Local Context (ELC) program], are eligible to transfer if they have a "C" (2.0) average in transferable coursework.
2. Students who met the Scholarship Requirement but not the Subject Requirement must take transferable college courses in the missing subjects, earning a "C" or better in each required course, and have an overall "C" (2.0) average in all transferable college coursework to be eligible to transfer.
3. Students who were not eligible for admission to the University when they graduated from high school because they did not meet the Scholarship Requirement must:
  - A. Complete 60 semester units or 90 quarter units of transferable college credit with a grade-point average of at least 2.4, with no more than 14 semester (21 quarter) units completed on a credit/no credit basis **AND**
  - B. Complete the following course pattern requirement, earning a grade of "C" or better in each course:
    1. Two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
    2. One transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; **AND**
    3. Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

(Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC may satisfy Option 3B above of the transfer admission requirements.)

**Nonresidents:** The minimum admission requirements for nonresidents are very similar to those for California residents. However, nonresidents must have a grade point average of 2.8 or higher in all transferable coursework. Students are advised to consult with the Admissions Office at the UC campus of choice for details and specific requirements.

If the number of applicants exceeds the spaces available for a particular campus or major — as is often the case — the campus uses criteria that exceed the minimum requirements to select students. Meeting the minimum requirements, therefore, is not enough to gain admission to many UC campuses and programs. The average grade-point average varies widely by campus and by major.

### Community College Transfer Priority Admission

UC campuses give priority consideration for admission to California community college students. A California community college student applying for admission to the University of California in advanced standing will be given priority admission over all other applicants if:

1. You were enrolled at one or more California community colleges for at least two terms (excluding summer sessions);
2. The last college attended before admission to a UC campus was a California community college (excluding summer sessions); and
3. You have completed at least 30 semester (45 quarter) UC-transferable units at one or more California community colleges.

### Program Planning for Transfer to a UC Campus

Students planning to transfer to the University of California must keep the following requirements in mind when selecting courses:

1. Admission/Major Requirements:  
As indicated above, the University has a common set of requirements which specify minimum eligibility for admission as a transfer student. However, several campuses have additional requirements that may go well beyond minimum eligibility requirements, particularly where the number of applications exceeds the number of spaces available. Students should give first priority toward completing all lower-division requirements for the major. In many cases, completing a portion of the major requirements is essential to gain admission to the major at the junior level.



## 2. General Education/Breadth:

Each school and college at every UC campus has its own general education, or breadth requirements designed to give students a broad background in a variety of academic areas. Students have the option of (1) completing the campus specific breadth requirements or (2) completing the Intersegmental General Education Transfer Core Curriculum (IGETC) outlined in the following section of this catalog.

A minimum of 120 units (180 quarter units) is required to complete a baccalaureate degree from the University of California. The University will award graduation credit for up to 70 semester (105 quarter) units of transferable coursework from a community college. Courses in excess of 70 semester units will receive subject credit and may be used to satisfy University subject requirements. Some campuses have limits on the number of transfer units that will be accepted. If your community college work is combined with credit from a four-year institution, there might be a problem. Please consult the Admissions Office at the UC campus that interests you.

In general, no UC course credit is given for a course completed after a more advanced course is completed in the same subject matter. Refer to [www.assist.org](http://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](http://www.assist.org). Saddleback College courses which do not appear on the UC Transfer Course Agreement (TCA) and are numbered from 1 to 99 are either pending UC transfer credit review by the UC Office of the President, or were not approved as UC-transferable. Consult with a Saddleback College counselor and refer often to ASSIST at [www.assist.org](http://www.assist.org).

## IGETC – The Intersegmental General Education Transfer Curriculum

### (Information Subject to Change)

The Intersegmental General Education Transfer Curriculum (IGETC) is a series of courses that community college students can use to satisfy lower-division general education requirements at any campus of the University of California (UC) or California State University (CSU). The IGETC will permit a student to transfer from Saddleback College to a campus in either of these university systems without the need, after transfer, to take additional lower-division general education courses to satisfy campus general education requirements.

Completion of the IGETC is not a requirement for admission to a CSU or UC campus, nor is it the only way to fulfill the lower-division general education requirements of CSU or UC prior to transfer. The IGETC is most advantageous for transfers who have not yet decided on a major or a campus. Once a student has identified a major, it is important to work toward fulfilling any required preparatory courses—particularly in those professional or “high unit” majors that select applicants on the basis of satisfaction of lower-division major requirements. It is important to note that this does not preclude a student from following IGETC. However, IGETC should not be done to the exclusion of completing any preparatory courses needed for admission to the major.

It is not advisable for transfers to engineering and science majors at any UC campus to use IGETC. Students entering “high unit” majors, such as those in the sciences, must be careful to complete any needed lower-division major preparation. For example, majors in the sciences not only have specific science prerequisites, but also substantial mathematics requirements. Some majors specifically prohibit the use of IGETC.

**Courses on the following IGETC list are approved for the 2018-2019 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.

**(Choose two courses: one course in English Composition and one course in Critical Thinking/Composition.**

**Complete Oral Communication for CSU transfers only)**

## AREA 1 - ENGLISH COMMUNICATION

**UC 2 courses = 6 units required or CSU 3 courses = 9 units required**

<b>1A English Composition</b>	ENG 1A or 1AH
<b>1B Critical Thinking/Composition</b>	ENG 1B-Completed Summer 1992 or after, ENG 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.
<b>1C Oral Communication</b>	SP 1 or 1H (required for CSU transfers only)

**AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING: 3 units required**

Choose one course: Math 2\*\*, 3\*\*, 3A, or 3AH, 3B, 3C (formerly 4A), 4B, 6A, 6B, 7\*\*, 8\*\*, 9, 10, 11\*\*, 24, 26, PSYC 44 [F12].

**AREA 3 - ARTS and HUMANITIES: 9 units required**

Choose three courses: one course from the Arts, one course from the Humanities and a third course in either area.

<b>A. Arts Courses</b>	
ARCH 12 [S07]	FA <u>20</u> [F94], 27
ART 4	GD 1, 2 [F17]
ARTH 20, 21, 22, 23, 24, 25, 26, 27, <u>28</u> , 29 (formerly ART 20, 21, 22, 23, 24, 25, 26, 27, 28, 29), 30 (formerly 103 [F16], 32 (formerly 104 [F16])	MUS 20, <u>21</u> [F94], 23 [F94], 24, <u>25</u> , <u>26</u> , 27 [F94], 28 [F94], <u>29</u> [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], 74 [F18]	TA 20, <u>21</u> , 25, 26

<b>B. Humanities Courses</b>	
ARAB 2 [F10], 3 [S07], 4 [S07], 21 [^F95]	ITA 2 [F10], 3, 4, 21 [F95]
CHI 2 [F10], 3 [F07], 4 [F07], 21 [F95]	JA 2 [F10], ^3, ^4, 21 [F95]
ENG 15A, 15B, 17A, 17B, 18, 19, <u>20</u> , 21A, 21B, <u>21C</u> [F95], 21D [F95], <u>21E</u> [F95], 22, <u>23A</u> [F95], <u>23B</u> [F95], 24 [F95], 25, 27A or 27AH, <u>27B</u> , <u>27C</u> , <u>27D</u> , <u>27E</u> , <u>31</u> [F02], <u>35</u> [F92], 44 [F95], <u>46</u> , <u>47</u> , <u>50</u> , 52 [F97], <u>54</u> [F95]	KOR 2 [F09], 3, 4, 21 [F95]
FR 2 [F10], 3, 4, <u>20</u> [F95-F07], ^21	PRSN 2 [F10], 3 [F05], 4 [F05], 21
GER 2 [F10], 3, 4, <u>21</u> [F95]	PHIL 1 or 1H, 2(formerly 103) [F15], <u>3</u> , <u>4</u> , 5 (formerly 104) [F15], 10, 14, 15;
HEBR 2 [F10], 3 [F09], <u>4</u> [F09], <u>21</u> [F95]	PORT 2, 3, 4, 21 [F95]
HIST 4, 5, 16[F17], 17[F17], <u>18</u> , 30*, 40*, 41*, <u>60</u> , 61*† (prior to F95) 70*, 71*, 72* [F01], 75†	PS <u>61</u> *† (prior to F95), <u>75</u> *†
HON 11H, 12H, 13H, 14H, 15H, 16H	SL 2 [F10], 3 (formerly 34) [F98], 4 (formerly 35) [F98]
HUM 1, 2 [F12], 3, 4, <u>10A</u> , <u>10B</u> , 21 [F94], 22 [F94], <u>30AH</u> , 30BH, 30CH, <u>31AH</u> , 31BH, 31CH	SPAN 2 [F10] or 2H, 3, 4, 20A (formerly 20) [F01], 20B [F01], 21A (formerly 21) [F01], 21B [F01] 21C [F09]
IDS <u>1</u> [F94], 2 [F94]	

^Reinstated

Underlined courses are no longer offered at Saddleback College

†Cross-referenced course

**AREA 4 - SOCIAL and BEHAVIORAL SCIENCES: 9 units required**

Choose three courses from at least two different subjects.

ANTH 2 or 2H, 3 [F03], 4 [S07], 5 [F08], 6 [F03], 7 [S07], 8 [F02], 9, 10 [F98], 13 [S07], 14 [F03], 15, <u>20</u> **† [F98], 21 [F92]	HIST <u>7</u> ** [F96], <u>8</u> ** [F96], <u>9</u> [S07], <u>10</u> [S07], 11 [S07], 12 [F02], 15 [S07], 16**, 17**, <u>18</u> , 19, 20†, 21 [F92], 22**, <u>25</u> [S07], 27 [F98], 28 [F98], 29, 30*, 32 [S07], 33 [F01], 40*, 41*, <u>60</u> , 61*† [F92], 62 [F03], 63 [F03], 70*, 71*, 72* [F01], 74 [F98], 75*†, 80† [F00], 81 [F94]
CDE 7 (formerly CD 7, 107) or 7H, 15 (formerly CD 15, 105)	HD <u>7</u> †
CTVR 1* (formerly CA 1) [S07]	JRN 1* [S07]
ECON 2 or 2H, 4 (formerly 1) or 4H, <u>6</u> * [F96], 11† [F00]; 20** [F94]	PS 1 or 1H, 2, 4, <u>10</u> [S07], 11† [F00], 12, 14, <u>21</u> [F98], <u>61</u> *† [F92], <u>75</u> *†, 80† [F00]
ENV 1 [F01]; 6* [F96]	PSYC 1 or 1H, 2 or 2H, 3* (prior to F12), 4, 5 [S06], 7, 16 [S07], 21 [F92], 30 †, 33 [S07], 37 [S07]
ES (formerly CCS) 1 [F96], 2 [F96], 3, <u>10</u> [F98]	SOC 1, 2, <u>4</u> , <u>5</u> , 6 [F96], 10 [S05], 15 [F07], 20†, 21 [F92], 23 [F17], 25 [S06], 30†
GEOG 2 or 2H, 3, 38 [F10];	SP 20**† [F98]
GLST 1, 2	WS 10 [F92], 11H (formerly 111H) [F18],15, <u>21</u> [F95], 31, <u>40</u> [F95]

Underlined courses are no longer offered at Saddleback College

†Cross-referenced course

**AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES: 7 units required**

(Choose one course from the Physical Science, one course from the Biological Science. One course must have a laboratory.)

**Note:** ♦Lab courses

<b>A. Physical Science Courses</b>	
ASTR 1♦ (prior to F94), 20, 20 and 25♦ 21† [F01], 45 [F01]	GEOL 1♦, 2♦, 3 [S05], 4 [S04], 5♦, 6♦ [S07], 7 [S04], 20♦**, 21† [F01], 23♦†
CHEM 1A♦**, 1B♦**, 2♦, 3♦**, 12A♦ [S07], 12B♦ [S07], 13	MS 4♦, 20♦
ENV 23♦†	PHYS 1A♦, 1B♦, 2A♦**, 2B♦**, 3A♦ [F00], 4A♦**, 4B♦**, 4C♦** [S07], 20♦**
GEOG 1 or 1H, 1 and 1L♦ [F99]	

<b>B. Biological Science Courses</b>	
ANTH 1 or 1H, 1 and 1L♦ [F98]	HORT 20♦ [F14]
BIO 2♦, 3A♦ (1A prior to F03) or 3AH♦, 3B♦ (1B prior to F03) or 3BH♦, 3C♦ [S07], 4A♦, 4B♦, 5♦ (prior to F93), 6♦ (prior to F94), 11♦ [F93], 15♦ [F07], 18♦ [F99], 19♦ [S05], 20♦**, 28 [F13], 30, 31♦, 40, 43 [S07]	PSYC 3* [F10]
ENV 18♦ [F99], 19♦ [S05], 24♦ [S07]	

† 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, 1B, 2 [F05], 3 [F07], 4 [F07]; FR 1, 1B, 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, 1B, 2 [F05], 3 [F05], 4 [F05]; JA 1, 1A & 1B, 2 [F05], 3 [F07], 4 [F07]; KOR 1 [F09], 2 [F09], 3, 4; PORT 1 [F12], 2 [F12], 3, 4; PRSN 1, 2 [F05], 3, 4; SPAN 1 or 1H, 2 [F05] or 2H, 3 [F05], 4 [F05], 6 [F05]; or 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.

\*Course may be listed in more than one area but shall not be certified in more than one area.

\*\*Indicates that UC course credit may be limited. No credit may be given for an introductory course if taken after a more advanced college course, e.g., BIO 20 or GEOL 20. Credit may be limited for courses with overlapping content, e.g., HIST 7, 8, 16, 17, and 22 or MATH 2, 7, and 8. Refer to the "Courses Accepted for Transfer to the University of California" listing in this section of the catalog, and ASSIST at [www.assist.org](http://www.assist.org) and the Counseling Services office at Saddleback College for additional information.

**Note:** Courses listed above were approved at the time of catalog publication. Because additional courses may be approved and requirements for subsequent years are subject to change, check with the Counseling Services office at Saddleback College for the latest information.

### **Certification of IGETC Requirements**

It is important to remember that coursework taken at other certifying community colleges will be certified only in areas certified by the community college where the course was completed on an approved California Community College course list in the year it was taken. Courses completed at non-certifying colleges and universities will be certified only when deemed equivalent to courses on approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and rigor standards.

**Note:** Coursework from Irvine Valley College or other community colleges with the same course number and/or title may not always be certified in the same category at Saddleback College for IGETC. Also similar coursework from accredited independent or private colleges will not always be certified unless the course content is deemed equivalent to courses on an approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and academic rigor standards.

### **Partial Certification of IGETC Requirements**

Student may be partially certified if deficient no more than two courses. If partially certified, the student has the option of completing the one or two remaining courses at another community college or at the transfer institution until the beginning of the second year of transfer. Warning: Students need Area 1 and 2 completed to meet minimum transfer admission requirements. Therefore, partial certification that acknowledges a deficiency in Area 1 and/or 2 may also indicate a student does not meet minimum transfer requirements.

### **University of California General Education Breadth Requirements**

As previously indicated, each University of California (UC) campus has unique graduation requirements. Articulation agreements listing equivalent Saddleback courses meeting general education breadth requirements for UC campuses are available in the Counseling Services office or refer to ASSIST website at [www.assist.org](http://www.assist.org)

Articulation agreement information regarding course-to-course and major requirements for UC campuses is also available on ASSIST.

### **University of California Transfer Admission Programs**

The UC campuses offer a variety of programs in support of transfer admission, particularly for community college students. Inquire in the Counseling Services office or the Transfer Center for information regarding the Transfer Admissions Guarantee (TAG) program with all UC campuses except UC Berkeley, UC Los Angeles, and UC San Diego. In addition, students completing the Honors Program at Saddleback College are eligible for priority or guaranteed admission to participating UC campuses such as UC Irvine (Honors to Honors Program), or UC Los Angeles (Transfer Alliance Program). For more information on available Honors UC transfer admissions programs, visit the Saddleback College Honors Program website: [www.saddleback.edu/honors/honors-transfer](http://www.saddleback.edu/honors/honors-transfer) or contact the Transfer Center.

### **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, Biology, Business Administration, Communication Studies, Early Childhood Education, Economics, Elementary Teacher Education, English, Geography, Geology, History, Journalism, Kinesiology, Mathematics, Music, Nutrition and Dietetics, 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](http://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."
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.



## 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 online at <http://www.saddleback.edu/articulation/private-and-out-state-colleges-and-universities>

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.

Example Campus	CSU G.E.	(CSU)IGETC	(UC)IGETC
Azusa Pacific Univ.		X+	
Biola Univ.		X+	
Chapman Univ.	X+	X+	X+
Concordia Univ.	X+	X+	X+
Dominican College San Rafael		X+	
Golden Gate University		X+	
Hope Int'l. Univ.		X*+	X+
Univ. of La Verne	X	X	X
Univ. of the Pacific	X	X	X
Univ. of San Francisco		X+	
Vanguard University		X+	X

### \*Campus preferred option

+Requires additional G.E. requirements. For details, refer to the catalog for the college of choice, or contact the Counseling Services office at Saddleback College.

Students are advised to refer to the transfer college of choice catalog, website, and contact their admissions office for details regarding campus-specific general education requirements and options.

## Transfer Information Online

The following websites provide detailed information on the transfer process to the University of California and California State University systems.

[www.assist.org](http://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.

<http://www.calstate.edu/apply>

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](http://admission.universityofcalifornia.edu)

University of California information and online application.

[www.californiacolleges.edu](http://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.

## Information About Academic 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.

<b>1-299</b>	Courses intended for associate degrees, occupational skills awards, and transfer purposes.
<b>1-99</b>	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 <a href="http://www.assist.org">www.assist.org</a> for information about course articulation for a particular major.
<b>100-199</b>	Courses which are parallel to baccalaureate-level courses that generally transfer to CSU but not to the UC.
<b>200-299</b>	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.
<b>300-399</b>	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.
<b>400-499</b>	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.
<b>800-899</b>	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.
<b>Emeritus Courses:</b> 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 institutions.	

If no prerequisite is noted, none is required; and any student may enroll in the course.

Units of credit.

The term "open-entry/open-exit" refers to courses in which students enroll at different times and complete at various times or at various paces within a semester.

**Prerequisite:** mastery of subject at a certain level is necessary for success in this class.

**Corequisite:** concurrent (simultaneous) enrollment in or prior successful completion of a companion course and/or lab is required.

**Recommended Preparation:** certain preparation is advised, although not required before students enter the course.

Course ID  
**ENG 210**  
Course Title  
**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*

Weekly class hours (lecture, laboratory, and/or learning center).

**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 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*

Course may not be taken for a letter grade.

Limitation on course repeatability and credit accumulation.

**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/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*

Students may not exceed four enrollments in courses related in content and may be permitted fewer than four if each course results in a passing grade on the first attempt and the courses in a category are not repeatable.

Limitation on enrollment: special conditions apply for entry into a course.

Course may not be repeated.

## 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 units should expect average workloads of 45 hours per week, inclusive of time spent in class.

## Prerequisites, Corequisites, Limitations, and Recommended Preparations

(Title 5 §55000 Article 1)

**Prerequisites, Corequisites, 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.

## 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.

## 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	
Category	Courses
Ceramics - Handbuilding	ART 10 ART 216 ART 217
Ceramics - Wheel	ART 11 ART 12 ART 13
Drawing	ART 80 ART 81 ART 82
Drawing from the Live Model	ART 85 ART 86 ART 87
Foundation and Design	ART 40 ART 41 ART 42
Jewelry	ART 228 ART 229 ART 230 ART 231
Life Sculpture	ART 78 ART 79
Painting	ART 50 ART 51 ART 52 ART 250
Painting from the Live Model	ART 53 ART 54
Relief Printmaking	ART 60 ART 61 ART 62 ART 164
Watercolor	ART 57 ART 58 ART 59 ART 261

DANCE	
Category	Courses
Aerobics	KNES 1 KNES 3 KNES 7 KNES 50 DANC 77 (formerly DANC 177)
African Dance	DANC 83 (formerly DANC 183) DANC 182
Ballet	DANC 51 DANC 52 DANC 53 DANC 67 DANC 71 (formerly DANC 171)
Choreography	DANC 9 DANC 19 (formerly DANC 119)
Dance Rehearsal & Performance	DANC 10 DANC 11 DANC 12 (formerly DANC 112) DANC 14 (formerly DANC 114)
Hip Hop	DANC 78 (formerly DANC 178) DANC 79 DANC 80 DANC 81
Jazz Dance	DANC 57 DANC 58 DANC 59 DANC 73 (formerly DANC 173)
Latin Dance	DANC 66 DANC 70 (formerly DANC 170)
Modern Dance	DANC 54 DANC 55 DANC 56 DANC 72 (formerly DANC 172)

<b>DANCE</b> <i>(continued)</i>	
<b>Category</b>	<b>Courses</b>
Pilates/Conditioning	KNES 9 DANC 63 TA 63 (no longer offered effective Fall 2003) KNES 65/DANC 65 KNES 38/DANC 38 (formerly KNES/DANC 138)
Repertory	DANC 15 (formerly DANC 115) DANC 16 (formerly DANC 116) DANC 17 DANC 18
Social Dance	DANC 68 DANC 69 (formerly DANC 169)
Tap	DANC 60 DANC 61 DANC 62 DANC 75 (formerly DANC 175)
Yoga	KNES 28 KNES 39 (formerly KNES 139) KNES 40 DANC 28 (formerly DANC 128)

<b>KINESIOLOGY</b>	
<b>Category</b>	<b>Courses</b>
Aerobics	KNES 1 KNES 3 KNES 7 KNES 50 DANC 77 (formerly DANC 177)
Aikido	KNES 94 KNES 95 KNES 96 (formerly KNES 195)
Athletic Training	KNES 56 KNES 59 (formerly KNES 159)
Baseball	KNES 79 KNES 82
Basketball	KNES 70 KNES 71
Bowling	KNES 17 KNES 18
Cycling/Spinning	KNES 15 (formerly KNES 115) KNES 19
Fitness Training	KNES 2 KNES 10 (formerly KNES 110) KNES 31 KNES 66
Golf	KNES 20 KNES 21 KNES 22 KNES 23
Kickboxing	KNES 8 KNES 16 (formerly KNES 116)

<b>KINESIOLOGY</b> <i>(continued)</i>	
<b>Category</b>	<b>Courses</b>
Martial Arts	KNES 90 KNES 91 (formerly KNES 191) KNES 93 KNES 97 (formerly KNES 197) KNES 199
Pep Squad	KNES 57 KNES 58 (formerly KNES 158)
Pilates/Conditioning	KNES 9 DANC 63 TA 63 (no longer offered effective Fall 2003) KNES 65/DANC 65 KNES 38/DANC 38 (formerly KNES/DANC 138)
Rock Climbing	KNES 63 KNES 88 (formerly KNES 100) KNES 89 (formerly KNES 101)
Soccer	KNES 72 KNES 73
Softball	KNES 74 (no longer offered effective Fall 2017) KNES 83 (no longer offered effective Fall 2016)
Surfing	KNES 33 KNES 34 KNES 35 KNES 36
Swimming	KNES 41 KNES 42 KNES 43 KNES 44 KNES 49
Tai Chi/Qigong	KNES 29 KNES 37 (formerly KNES 137) KNES 98 (formerly KNES 198)
Tennis	KNES 24 KNES 25 KNES 26 KNES 27
Volleyball	KNES 76 KNES 77 KNES 78 KNES 81 KNES 84 (formerly KNES 184) KNES 85 (formerly KNES 185)
Walking/Hiking	KNES 68 KNES 69 KNES 86 (formerly KNES 186)
Weight Lifting	KNES 4 KNES 5 KNES 6
Yoga	KNES 28 KNES 39 (formerly KNES 139) KNES 40 DANC 28 (formerly DANC 128)



<b>MUSIC</b>	
<b>Category</b>	<b>Courses</b>
Band	MUS 44 (no longer offered effective Fall 2014) MUS 247 (no longer offered effective Fall 2018)
Chamber Music	MUS 63 MUS 66 MUS 166 MUS 167 MUS 168 MUS 169 MUS 266 (no longer offered effective Fall 2016)
Choral/Orchestral Ensembles	MUS 31 (no longer offered effective Fall 2017) MUS 32 MUS 33 MUS 232 (no longer offered effective Fall 2017) MUS 233 (no longer offered effective Fall 2017) MUS 234
Commercial Music Ensembles	MUS 39 (formerly MUS 122) MUS 182 MUS 184 MUS 187
Functional Skills	MUS 176 MUS 177 MUS 202 MUS 203
Guitar	MUS 60 MUS 61 MUS 62 MUS 173 MUS 260
Harpsichord	MUS 86 (formerly MUS 106) MUS 87 (formerly MUS 107) MUS 88 (formerly MUS 108) MUS 89 (formerly MUS 109)
Jazz	MUS 47 MUS 197 (formerly MUS 297) MUS 246
Jazz Ensemble	MUS 148 MUS 241 MUS 242
Jazz Improv	MUS 46 MUS 140 (formerly MUS 240) MUS 190
Jazz Piano	MUS 252A (formerly MUS 252) MUS 252B MUS 252C
Keyboard Literature	MUS 58 MUS 253 (no longer offered effective Fall 2018) MUS 255 (no longer offered effective Fall 2018) MUS 257 (no longer offered effective Fall 2018)

<b>MUSIC (continued)</b>	
<b>Category</b>	<b>Courses</b>
Music Production	MUS 118 CTVR 118 (formerly CA 118; no longer offered effective Fall 2014) MUS 130 MUS 131 MUS 132
Musicianship	MUS 92 MUS 93 MUS 94 (formerly MUS 194)
Organ	MUS 96 (formerly MUS 102) MUS 97 (formerly MUS 103) MUS 98 (formerly MUS 104) MUS 99 (formerly MUS 105)
Piano	MUS 54A (formerly MUS 54) MUS 54B MUS 55A (formerly MUS 55) MUS 55B MUS 56
Piano Ensemble	MUS 64 MUS 65
Piano Pedagogy	MUS 178 MUS 179 MUS 256
Professional Development for Musicians	MUS 206 MUS 207 MUS 208 MUS 209
Vocal Ensemble	MUS 34 MUS 35
Voice	MUS 80 MUS 81 MUS 82

<b>THEATRE ARTS</b>	
<b>Category</b>	<b>Courses</b>
Acting and Scene Study	TA 1 TA 2 TA 3 TA 4 TA 5 (no longer offered effective Fall 2014)
Advanced Acting Techniques	TA 11 TA 35 SP 35 (no longer offered effective Fall 2010) TA 136 TA 290 (formerly TA 7)
Audition and Interview Techniques	TA 108 TA 111 (formerly TA 210) TA 116 (formerly TA 214)
Musical Theatre Study	TA 10 TA 107 (formerly TA 211) TA 212 (no longer offered effective Fall 2017)

<b>THEATRE ARTS</b> <i>(continued)</i>	
<b>Category</b>	<b>Courses</b>
Rehearsal and Performance	TA 15 TA 16 TA 17 TA 18 (no longer offered effective Fall 2017) TA 19 TA 113 TA 125
Summer Conservatory Performance	TA 150 (formerly TA 250) TA 152 (formerly TA 252) TA 153 (formerly TA 253) TA 154 (formerly TA 254) TA 155 (formerly TA 255)
Theatre Interpretation	SP 30 TA 30 (no longer offered effective Fall 2015) SP 32 TA 32 (no longer offered effective Fall 2015)

## 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 207A ADVANCED ACCOUNTING I

3 Units; 3 hours lecture

Prerequisite: ACCT 1A

Recommended Preparation: ACCT 202A

Studies the nature of and accounting for business combinations, preparation of consolidated financial statements (before and after business combinations), accounting for business ownership changes, insolvency (liquidation and reorganizations). Primary focus is the application of Generally Accepted Accounting Principles (GAAP) with overview of some International Financial Reporting Standards (IFRS) impacts.

**NR**

### ACCT 207B ADVANCED ACCOUNTING II

3 Units; 3 hours lecture

Prerequisite: ACCT 207A

Recommended Preparation: ACCT 202A

Continued advanced studies of the Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) convergence project, foreign currency transactions and foreign affiliate financial statement translations, accounting for partnerships, and identification of the main characteristics of fund accounting and its use with government and some non-profit entities.

**NR**

### ACCT 208 ACCOUNTING FOR GOVERNMENT AND NOT FOR PROFIT ENTITIES

3 Units; 3 hours lecture

Prerequisite: ACCT 1B

This course studies governmental and not-for-profit accounting. Topics include financial reporting; federal, state and local government accounting; budgetary accounting; general and special revenue funds; proprietary funds; trusts and agency funds; fixed assets and long term debt; and nonprofit accounting for entities such as public colleges, universities and health care providers.

**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*

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 241  
CREDIT AND FINANCIAL STATEMENT ANALYSIS I**

3 Units; 3 hours lecture

*Recommended Preparation: Accounting 1A*

This course studies the role of credit in the business world including basic financial statement overviews and liquidity analysis. Topics include credit in the business world, credit department organization and policies

and procedures, legal aspects of credit, negotiable instruments, terms and conditions of sale and aspects of the uniform commercial code.

**NR**

**ACCT 242  
CREDIT AND FINANCIAL STATEMENT ANALYSIS II**

3 Units; 3 hours lecture

*Prerequisite: ACCT 241*

This course studies the role of credit risk and mitigation in the business world including basic financial statement analysis for making credit decisions. Topics include credit investigating, knowing your customer, credit fraud and business insurance, customer visits, legal and bankruptcy code proceedings, international trade, Cash Flow Statement analysis and additional financial analysis for credit making decisions.

**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**

**ACCT 276  
ACCOUNTING FRAUD EXAMINATION**

3 Units; 3 hours lecture

*Prerequisite: ACCT 202A*

Subjects covered by this course include areas associated with modern forensic accounting and fraud examination. Topics include an examination of the various types of occupational fraud, as well as the techniques to prevent and detect fraud in organizations. Students will gain an understanding of the principals of fraud examination including the types of persons that commit fraud and the reasoning they may have to do so.

**NR**

## Anthropology

**ANTH 1  
BIOLOGICAL ANTHROPOLOGY**

3 Units; 3 hours lecture

*Transfers: CSU, UC*

An introduction to the study of human evolution and human variation. Topics include the scientific method, evolutionary theory, molecular and Mendelian genetics, population genetics and the forces of evolution, primate anatomy and behavior, the fossil and genetic evidence for human evolution, and modern human variation and biocultural adaptations. The supplemental laboratory class may be taken concurrently or within one year of completion of the lecture course.

**NR**

**ANTH 1H  
HONORS BIOLOGICAL ANTHROPOLOGY**

3 Units; 3 hours lecture

*Transfers: CSU, UC*

An introduction to the study of human evolution and human variation. Topics include the scientific method, evolutionary theory, molecular and Mendelian genetics, population genetics and the forces of evolution, primate anatomy and behavior, the fossil and genetic evidence for human evolution, and modern human variation and biocultural adaptations. This honors course is enriched by limited class size, seminar format, an extensive research project, and an academic poster presentation. Letter grade only. Credit for either 1 or 1H, but not both. The supplemental laboratory class may be taken concurrently or within one year of completion of the lecture course.

**NR**

**ANTH 1L  
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 2H  
HONORS 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. This honors course will be enriched through



limited class size, seminar format and an extensive research project, culminating in an academic poster presentation. Must be taken for a letter grade. Credit may be earned in either ANTH 2 or 2H, but not both.

**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 prehis-

tory, 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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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 medico-legal purposes (formerly ANTH 100).

**NR**



**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.

**NR**

**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.

**NR**

**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.

**NR**

**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.

**NR**

**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.

**NR**

**ARAB 10  
INTERMEDIATE CONVERSATIONAL  
ARABIC**

*3 Units; 3 hours lecture*

*Transfers: CSU, UC*

*Prerequisite: Arabic 2 or four years of high school Arabic*

Designed to develop fluency in Arabic. The emphasis is on both formal and informal expressions and conversation in Arabic.

**NR**

**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.

**NR**

**ARAB 901  
ARABIC LANGUAGE LAB**

*0.5 Unit; 1.5 hours learning center*

*Corequisite: ARAB 1*

Requires concurrent enrollment in Arabic 1. Enhances and provides practice in skills learned in Arabic 1 course.

**NR**

**ARAB 902  
ARABIC LANGUAGE LAB**

*0.5 Unit; 1.5 hours learning center*

*Corequisite: ARAB 2*

Requires concurrent enrollment in Arabic 2. Enhances and provides practice in skills learned in Arabic 2 course.

**NR**

**ARAB 903  
ARABIC LANGUAGE LAB**

*0.5 Unit; 1.5 hours learning center*

*Corequisite: ARAB 3*

Requires concurrent enrollment in Arabic 3. Enhances and provides practice in skills learned in Arabic 3 course.

**NR**

**ARAB 904  
ARABIC LANGUAGE LAB**

*0.5 Unit; 1.5 hours learning center*

*Corequisite: ARAB 4*

Requires concurrent enrollment in Arabic 4. Enhances and provides practice in skills learned in Arabic 4 course.

**NR**

**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.

**NR**

**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.

**NR**

**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.

**NR**

**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.

**NR**

**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.

**NR**

### **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.  
**NR**

### **ARCH 51 COMPUTER-AIDED DRAFTING**

3 Units; 2 hours lecture; 4 hours lab

Transfers: CSU, UC

Recommended Preparation: DR or ARCH 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.

**NR**

### **ARCH 110 STATICS 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 120 REVIT AND BUILDING INFORMATION MANAGEMENT (BIM)**

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU

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 (formerly ARCH 220).

**NR**

### **ARCH 121 ADVANCED REVIT AND BUILDING INFORMATION MANAGEMENT II**

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU

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 (formerly ARCH 221).

**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

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

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, PRINCIPLES 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 34

Learn to design quality form and space for living and working. Through the design process consider site, function, form, structure, color, and materials, as well as social, psychological, and ergonomic factors.

**NR**

### **ARCH 152 ADVANCED COMPUTER-AIDED DESIGN**

3 Units; 2 hours lecture; 4 hours lab

Transfers: CSU

Recommended Preparation: DR/ARCH 50 or DR/ARCH 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 ESTIMATING**

3 Units; 2 hours lecture; 4 hours lab

Transfers: CSU

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 COMBINATION 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 IN 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 excellent 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 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.

**NR**

### **ARCH 260 ARCHITECTURE IN NORTHERN CALIFORNIA**

1 Unit; 1 hour lecture; 1 hour lab

Visit architecture in San Francisco, Santa Barbara, San Luis Obispo–San Francisco Civic Center, Union Square, Herman Plaza, Haight-Ashbury, Golden Gate Park, Marin Civic Center, Napa valley, Santa Barbara and San Luis Obispo downtowns, Hearst Castle.

**NR**

### **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 UC San Diego Library to the Crystal Cathedral, Capistrano Library and San Diego's live/work housing.

**NR**

### **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.

**NR**

### **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.

**NR**

**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.

**NR**

**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.

**NR**

**Art**

**ART 4  
FUNDAMENTALS OF ART**

*3 Units; 3 hours lecture*

*Transfers: CSU, UC*

Emphasizes fundamental art ideas, modes, devices, problems of organization and structure terminology, media, and the relationship of art to society.

**NR**

**ART 9  
CERAMICS FUNDAMENTALS**

*3 Units; 1.5 hours lecture; 4.5 hours lab*

*Transfers: CSU, UC*

*Recommended Preparation: ART 80*

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.

**NR**

**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.

**NR**

**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*

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*

*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 will

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 LIVE 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 subtleties of position and attitudes. Fundamental structural drawing concepts essential to good painting, such as the study of human anatomy, proportional sighting, measuring methods, and perspective. Value relationships and color will be emphasized in order to represent the figure in convincing painting with form, volume, and space. Students are limited to a combined total of four enrollments in ART 53 and 54.

**NR**

### **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*  
*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*

Designed with an emphasis in advanced skills in the processes of relief and intaglio printmaking. The course will cover advanced skills in edition 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*

Principles, basic methods and techniques of preparing handcut and photographic stencils, printing techniques, simple color separation, and equipment and material handling. Care, use, and safety precautions in operating and cleaning the silkscreen unit. Also listed as GC 63. Credit given in either area, not both.

**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 SUBTRACTIVE SCULPTURE**

3 Units; 1.5 hours lecture; 4.5 hours lab  
Transfers: CSU, UC  
Prerequisite: ART 71

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

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 78

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 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 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 I**

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 IV**

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/editing 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, spruce 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

Introduction to the history of the lost wax process and the principles of designing jewelry for casting process. Explore 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**  
**AFRICAN, OCEANIC, AND ANCIENT NORTH AMERICAN ART**

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 30**  
**HISTORY OF MODERN ART 1825-1945**

3 Units; 3 hours lecture

Transfers: CSU, UC

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 (formerly ARTH 103).

**NR**

**ARTH 32**  
**SURVEY OF CONTEMPORARY ART**

3 Units; 3 hours lecture

Transfers: CSU, UC

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 (formerly ARTH 104).

**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**

## 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; tectonics; volcanism; surface processes; and atmospheric and thermal evolution of earth, the moon, terrestrial, and Jovian planets and their satellites. Additional topics will include meteorite and comet impacts and the possible existence of life elsewhere in the solar system. Field trips may be required to fulfill the objectives of this course. Also listed as GEOL 21. Credit given in either area, not both.

**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 charging 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

Corequisite: AUTO 204A

Recommended Preparation: AUTO 100, 207

Practical experience in the rebuilding, overhauling, and machining of engine components of the internal-combustion engine. It is recommended that the student have access to an engine for overhaul purposes. First part of a two-semester program covering block boring and honing techniques as well as bearing installation. Piston and ring selection procedures will be covered. The basic block will be assembled.

**NR**

**AUTO 104B****AUTOMOTIVE ENGINES**

5 Units; 3.5 hours lecture; 4.5 hours lab

Transfers: CSU

Prerequisite: AUTO 104A

Corequisite: AUTO 204B

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

Limitation: Completion of EPA Section A609 Certification

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 independently register, pay for, and complete the Section A609 certification within two weeks of class starting in order to remain enrolled. Registration details will be provided by the instructor.

**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 201  
ADVANCED AUTOMOTIVE  
ELECTRICAL**

3 Units; 2.5 hours lecture; 1.5 hours lab

Prerequisite: AUTO 101

Recommended Preparation: AUTO 100

Advanced automotive electrical-electronic systems cover strategy based diagnostic procedures for troubleshooting lighting, instrumentation, engine and body controls and other accessory circuits. Air bag theory, respective testing diagnostic procedures, and fuel system operation are included.

**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

Corequisite: AUTO 104A

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 AUTO 104A

Corequisite: AUTO 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,  
AUTO 102, AUTO 103, AUTO 202,  
AUTO 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 3AH HONORS GENERAL BIOLOGY I**

*5 Units; 3 hours lecture; 6 hours lab*  
*Transfers: CSU, UC*  
*Prerequisite: Chem 1A or Chem 2*

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. Hypothesis

based research project and presentation are required to fulfill the objectives of the course. 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 3BH HONORS GENERAL BIOLOGY II**

*5 Units; 3 hours lecture; 6 hours lab*  
*Transfers: CSU, UC*  
*Prerequisite: BIO 3A, BIO 3A Honors or BIO 4A*

Builds upon BIO 3A with emphasis on the origins of life, plant and animal structure and physiology, evolutionary relationships of taxonomic groups, and ecology. Hypothesis based research project and presentation are required to fulfill the objectives of the course. Field trips will be required to fulfill the objectives of the course.

**NR**

### **BIO 3C BIOCHEMISTRY 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*

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 and BIO 11.*

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

Integrated study of the basic principles of biology, with emphasis on the principles of structure and function, genetics, development, evolution, and ecology. Discussion of the philosophy, concepts and implications of modern biology will be included. Field trips will supplement laboratory work.

**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

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

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 or an Introductory Biology college level biology course

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 20

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 20

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 functional changes associated with, or resulting from, disease or injury in 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. Designed for students pursuing a nursing degree.

**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*

*Transfers: 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 economics 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*

*Transfers: 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 16 PERSONAL LAW, STREET LAW**

*3 Units; 3 hours lecture*

*Transfers: CSU, UC*

Law for the individual and family for lifelong decision-making. Topics include law and society in the U.S. and around the world, role and purpose of lawyers in the U.S., legal issues associated with marital and 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, personal privacy, consumer protection, and advocacy in the community and globally. Emphasis is on community-based service learning and preventive law to minimize negative consequences associated with legal problems and achieve optimal results in legal decision making and transactions.

**NR**

### **BUS 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 FASH 31. Credit given in either area, not both.

**NR**

### **BUS 102 ORAL BUSINESS COMMUNICATIONS**

*3 Units; 3 hours lecture*

*Transfers: CSU*

Workplace oral communications skills and concepts, including the communication process, organizational theory, cultural awareness, critical listening, interpersonal communication, teamwork, meeting and leadership skills, interviewing, briefing, business etiquette, nonverbal communications, and reduction of communication anxiety. Students apply effective communication skills to real business situations. Students create and deliver business-based presentations using presentation software; they apply steps of locating, evaluating, and synthesizing data using databases and other appropriate sources, plus outlining, and delivering content.

**NR**

### **BUS 103 BUSINESS ENGLISH**

*3 Units; 3 hours lecture*

*Transfers: CSU*

The basics of English grammar, punctuation, and sentence structure needed for clear business writing. Topics 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*

*Transfers: CSU*

*Prerequisite: BUS 103 or ENG 1A*

*Recommended Preparation: CIMA 108*

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*

*Transfers: 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*

*Transfers: 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*

*Transfers: 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*

*Transfers: 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 managing a social enterprise; building alliances and financial aspects of social entrepreneurship. Students will plan a social enterprise and participate in hands-on funding development.

**NR**

### **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 111  
BUSINESS SUSTAINABILITY  
STRATEGIES, PEOPLE - PLANET -  
PROFIT***3 Units; 3 hours lecture**Transfers: CSU*

Examines business strategies that affect 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 or repurposing, and other practices related to sustainability. Reviews legal and ethical issues, strategic planning, development, and measurement of policies, practices, and products as they relate to sustainability.

**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 135  
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. Examines strategies, design, media selection and ethics. Addresses good copy, layout, and production of print and electronic media, including email, e-marketing, e-retailing, web sites, and social media. Covers profit and non-profit organizations; addresses business to business and business to consumer communications. 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 196  
WORKPLACE SUCCESS SKILLS**

1 Unit; 1 hour lecture

Transfers: CSU

Teaches the employability skills needed to succeed in any professional career field and work organization. The focus of this class is to teach students transferable skills necessary to succeed in the ever-changing workplace through teamwork, problem-solving, communication, self-management, and career readiness. Students will enhance basic soft skills, workplace skills, interpersonal skills, communication skills, and leadership skills.

**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 prepare for the fundraising process, 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 PRINCIPLES**

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 AS-T in Chemistry; does not apply for students pursuing an A.S. in Chemistry. May be taken by students pursuing an A.S. or AS-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**

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 PRINCIPLES**

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: CHEM 12A

A lecture-only continuation of CHEM 12A. Intended specifically for students pursuing an AS-T in Chemistry; does not apply for students pursuing an A.S. in Chemistry. 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  
BASICS OF CHEMISTRY**

2 Units; 2 hours lecture

Transfers: CSU

Prerequisite: CHEM 3 and MATH 124

Corequisite: CHEM 1A

Consists of quiz/discussion/problem-solving/drill sessions. Designed to help students succeed in their study of general chemistry.

**NR**

**CHEM 108  
INTRODUCTION TO GENERAL,  
ORGANIC, AND BIOCHEMISTRY**

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU

A study of inorganic, organic, and biochemistry for health pre-professionals and non-science majors. Ideal for students planning to enter nursing and dental hygiene programs. Designed as the first chemistry course to assist students in biology and health-related professions. The focus is on the biochemistry of the human body. Health, nutrition, and basic laboratory techniques are included.

**NR**

**Child Development and  
Education**

**CDE 7  
CHILD GROWTH AND DEVELOPMENT**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: ENG 200 and ENG 340

Examines the major physical, cognitive, social and emotional developmental milestones for children from conception through adolescence including the development of language. Emphasis will be on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences and analyze characteristics at various stages according to developmental theories. Credit may be earned in either CDE 7 or 7H, but not both. DS1. C-ID 100. CAP Aligned. (formerly CD 107 and CD 7).

**NR**

**CDE 7H  
HONORS CHILD GROWTH AND  
DEVELOPMENT**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: ENG 200 and ENG 340

Examines the major physical, cognitive, social and emotional developmental milestones for children from conception through adolescence. Emphasis will be on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences and analyze characteristics at various stages according to developmental theories.

This honors course will be enriched through limited class size, in-depth focus on key topics, extensive observation and analysis of child development, and critical analysis of literature for developmental themes. Must be taken for a letter grade. Credit may be earned in either CDE 7 or 7H, but not both.

**NR**

**CDE 15  
CHILD, FAMILY, AND COMMUNITY**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: ENG 200 and ENG 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. DS2. C-ID 110. CAP Aligned. (formerly CD 105 and CD 15).

**NR**

**CDE 18  
EXCEPTIONAL CHILDREN**

3 Units; 3 hours lecture

Transfers: CSU, UC

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 (formerly CDE 118).

**NR**

**CDE 31  
EDUCATIONAL PSYCHOLOGY**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: ENG 200 and ENG 340

Provides an introductory examination of central theories of human development and learning in their application to contemporary educational settings including abilities, intelligence, social and emotional factors, and principles of learning. This course is intended for students preparing to teach elementary, middle, or high school (K-12) (formerly CDE 131).

**NR**

**CDE 41  
SECONDARY SCHOOL TEACHING**

3 Units; 3 hours lecture

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 a minimum of 45 hours of required field work in a California public middle or high school as follows: 35 hours at one site and 10 hours in various other sites/activities. (formerly EDUC 115 and EDUC 41).

**NR**

**CDE 90  
INTRO TO ELEMENTARY EDUCATION**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: ENG 200, ENG 340, and CDE 7 or CDE 7H

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 elementary general education classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. C-ID EDUC 200. (formerly EDUC 90).

**NR**

**CDE 101  
PRINCIPLES AND PRACTICES OF  
TEACHING YOUNG CHILDREN**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 7 or CDE 7H, ENG 200, and ENG 340

Historical context and theoretical perspectives of developmentally appropriate practice in early care and education including early primary education. Examines the role of the early childhood educator, identifies best practices for environmental design, curriculum, and teaching strategies. Explores teacher child relationships, professional ethics, career pathways, and professional standards. This class is appropriate for students wanting to work with young children in a variety of programs, including infant-toddler, preschool, transitional kindergarten, and kindergarten. DS3, C-ID ECE 120, CAP aligned. (formerly CD 101).

**NR**



### **CDE 110 INTRODUCTION TO CURRICULUM**

3 Units; 2 hours lecture; 3 hours lab

*Transfers: CSU*

*Prerequisite: CDE 7 or CDE 7H, CDE 15, and CDE 101*

*Limitation: Proof of current state mandated immunizations and negative TB test required for participation.*

*Recommended Preparation: ENG 200 and 340*

An overview of knowledge and skills related to providing developmentally appropriate curriculum and environments for toddlers and young children. Explores teaching strategies and curriculum development based on theoretical frameworks, observation, and assessment. Emphasizes the teacher's role in supporting development and learning across the curriculum in play based settings, including all content areas. Requires a minimum of 49.8 hours lab supervised by CA Master Teacher. DS3, C-ID 130, CAP Aligned. (formerly CD 110).

**NR**

### **CDE 111 CHILD GUIDANCE AND COMMUNICATION**

3 Units; 3 hours lecture

*Transfers: CSU*

*Recommended Preparation: ENG 200 and ENG 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. (formerly CD 111).

**NR**

### **CDE 112 HEALTH, SAFETY, AND NUTRITION**

3 Units; 3 hours lecture

*Transfers: CSU*

*Recommended Preparation: CDE 101, CDE 7 or CDE 7H, ENG 200, and ENG 340*

Laws, regulations, standards, policies, procedures, and best practices related to health, safety, and nutrition in early childhood settings. Includes prevention strategies, nutrition and meal planning for various ages and planning educational experiences integrated in to daily routines designed to teach children positive health, safety, and nutrition habits. DS7, C-ID 220, CAP Aligned. (formerly CD 112).

**NR**

### **CDE 113 MATH AND SCIENCE CURRICULUM EARLY CHILDHOOD EDUCATION**

3 Units; 3 hours lecture

*Transfers: CSU*

*Recommended Preparation: CDE 101, CDE 7 or CDE 7H, CDE 110, ENG 200, and ENG 340*

Presents an integrated approach to developmentally appropriate science and math curriculum in early childhood settings. Includes review of state and national resources and standards, best practices in environmental design and effective strategies for interactions and instruction, assessment and documentation. Experiences planned on observation of children's abilities will be emphasized. Does not meet general education requirements in natural science or mathematics. (formerly CD 113).

**NR**

### **CDE 114 CREATIVE ART CURRICULUM FOR YOUNG CHILDREN**

3 Units; 3 hours lecture

*Transfers: CSU*

*Recommended Preparation: CDE 101, CDE 7 or CDE 7H, CDE 110, ENG 200, and ENG 340*

Presents theoretical foundations and developmentally appropriate practices for selecting appropriate and various materials and media, designing supportive environments, and utilizing supportive interactions in the areas of creative, visual, and performing arts for young children ages 0-5. Includes review of state and national standards and best practices. (formerly CD 114).

**NR**

### **CDE 115 LITERACY CURRICULUM IN EARLY CHILDHOOD EDUCATION**

3 Units; 3 hours lecture

*Transfers: CSU*

*Recommended Preparation: CDE 101, CDE 7 or CDE 7H, CDE 110, ENG 200, and ENG 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. (formerly CD 115).

**NR**

### **CDE 117 TEACHING IN A DIVERSE SOCIETY**

3 Units; 3 hours lecture

*Transfers: CSU*

*Recommended Preparation: CDE 101, CDE 7 or CDE 7H, CDE 110, ENG 200, and ENG 340*

Examination of the impact of various societal influences on the development of children's social identity within a diverse society 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, linguistically and developmentally appropriate, inclusive, and 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, and social and educational access and schooling. C-ID ECE 220. CAP aligned. (formerly CD 117).

**NR**

### **CDE 120 OBSERVATION AND ASSESSMENT**

3 Units; 3 hours lecture

*Transfers: CSU*

*Recommended Preparation: CDE 101, CDE 110, ENG 200, and ENG 340*

The appropriate use of assessment and observation tools and strategies to document young children's development and learning. Covers various methods of observation and data collection, tools, and strategies including time management and legal and ethical responsibilities. Emphasizes use of findings to inform and plan differentiated instruction, and classroom environments. Use of rating systems, portfolios, and multiple assessment tools will be explored along with strategies for collaboration with families and professionals. This course is designed for those working with students in pre-school, transitional kindergarten, and early primary classrooms. C-ID ECE 200, CAP aligned. (formerly CD 120).

**NR**

### **CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE**

5 Units; 3 hours lecture; 6 hours lab

*Transfers: CSU*

*Prerequisite: CDE 110, CDE 7 or CDE 7H, CDE 15, CDE 101, and CDE 120*

*Limitation: Proof of current state mandated immunizations and negative TB test required for participation.*

*Recommended Preparation: CDE 113, CDE 114, CDE 115, and ENG 200*

Under guided supervision, students will utilize 99.6 hours of lab classroom experience to demonstrate developmentally appropriate teaching competencies, make connections between theory and practice, and build comprehensive understanding of children and families. Reflective practice will be emphasized as student teachers design, implement and evaluate approaches and strategies that promote development and learning. DS3, C-ID ECE 210. (formerly CD 121).

**NR**

**CDE 123**  
**INFANT AND TODDLER DEVELOPMENT**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 ENG 200, and ENG 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, CAP Aligned. (formerly CD 123).

**NR**

**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 atypical development, and caregiver's cultural competence specifically tailored to working with children and families. CAP Aligned.

**NR**

**CDE 125**  
**SCHOOL-AGE BEFORE AND AFTER SCHOOL PROGRAMS**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 ENG 200, and ENG 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. DS5, (formerly CD 125).

**NR**

**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 127**  
**ADULT SUPERVISION AND MENTORING**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 CDE 110, ENG 200, and ENG 340

A study of the methods and principles of supervising student teachers, assistant teachers, parents, and volunteers in early childhood or school-age centers. Emphasis is on the 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. CAP Aligned. (formerly CD 127).

**NR**

**CDE 128**  
**ADMINISTRATION I - PROGRAMS IN EARLY CHILDHOOD EDUCATION**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 CDE 110, ENG 200, and ENG 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. CAP Aligned. (formerly CD 128).

**NR**

**CDE 129**  
**ADMINISTRATION II-PERSONNEL & LEADERSHIP EARLY CHILDHOOD ED**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 CDE 110, ENG 200, and ENG 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. CAP Aligned. (formerly CD 129).

**NR**

**CDE 133**  
**CARE AND EDUCATION FOR INFANTS AND TODDLERS**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 CDE 110, CDE 123, ENG 200, and ENG 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. DS4, CAP Aligned. (formerly CD 133).

**NR**

**CDE 135**  
**INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 CDE 15, CDE 7 or CDE 7H, CDE 110,  
 ENG 200, and ENG 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. CAP Aligned. (formerly CD 135).

**NR**

**CDE 140**  
**CURRICULUM AND STRATEGIES FOR CHILDREN WITH SPECIAL NEEDS**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CDE 101,  
 CDE 15, CDE 7 or CDE 7H, CDE 110,  
 ENG 200, and ENG 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. CAP Aligned. (formerly CD 140).

**NR**

**CDE 200**  
**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. (formerly CD 250).

**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 251**  
**CA PRESCHOOL FOUNDATIONS & FRAMEWORKS-LANGUAGE, LITERACY**

*1 Unit; 1 hour lecture*

Introduction to the California Preschool Learning Foundations and Frameworks in the domain of language and literacy development including the strands of listening and speaking, reading, and writing. Provides practical considerations 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 252**  
**CA PRESCHOOL FOUNDATIONS & FRAMEWORKS - ENGLISH LANGUAGE DEV**

*1 Unit; 1 hour lecture*

Introduction to the California Preschool Learning Foundations and Frameworks in the domain of English Language Learners including strands of listening, speaking, reading and writing. 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**

**CDE 255**  
**CA PRESCHOOL FOUNDATIONS & FRAMEWORKS - PERFORMING ARTS**

*1 Unit; 1 hour lecture*

Introduction to the California Preschool Learning Foundations and Frameworks in the domain of Performing Arts including strands of music, drama, and dance. 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 256**  
**CA PRESCHOOL FOUNDATIONS & FRAMEWORKS - PHYSICAL DEVELOPMENT**

*1 Unit; 1 hour lecture*

Introduction to the California Preschool Learning Foundations and Frameworks in the domain of Physical Development including strands of fundamental movement skills, perceptual-motor skills and movement concepts, and active physical play. Provides practical strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers.

**NR**

**CDE 257**  
**CA PRESCHOOL FOUNDATIONS & FRAMEWORKS: HEALTH**

*1 Unit; 1 hour lecture*

Introduction to the California Preschool Learning Foundations and Frameworks domain of Health including strands of health habits, safety, and nutrition. Provides practical strategies for implementing the curriculum frameworks. Applicable to required or professional development units for Child Development Permit holders, as well as pre-school, transitional kindergarten, and early-primary teachers.

**NR**

**CDE 258**  
**CA PRESCHOOL FOUNDATIONS & FRAMEWORKS - HISTORY-SOC SCIENCE**

*1 Unit; 1 hour lecture*

Introduction to the California Preschool Learning Foundations and Frameworks in the domain of History and Social Science including strands of self and society, civics, history, geography, ecology, and economics. 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 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 261**  
**CHALLENGING BEHAVIORS**

*3 Units; 3 hours lecture*

*Recommended Preparation: CDE 7 Child Growth and Development OR CDE 7H Honors Child Growth and Development OR CDE 124 Preschool and Early Primary Child Development*

Appropriate for classroom teachers in various settings, students will identify developmentally appropriate behaviors, challenging behaviors and the various influences that effect children's behavior. Students will analyze children's behaviors and select strategies to make positive changes. Emphasizes the connection between children's social and emotional development and their success in the classroom, and how the teachers' perceptions, experiences, and behavior influence child behaviors.

**NR**

**CDE 263**  
**REFLECTIVE PRACTICE FOR EARLY CHILDHOOD EDUCATORS**

*2 Units; 2 hours lecture*

*Limitation: Current employment working as a lead teacher in a licensed child care or public school setting.*

*Recommended Preparation: Completion of 24 units in early childhood education.*

Designed for teachers currently teaching in an early childhood program serving children from birth through early primary grades.



This course offers a guided pathway to reflective practice, developmental observations, intentional teaching, differentiated instruction, self-assessment and visual documentation of classroom learning. Students will use a variety of instructional strategies, including purposeful play, to assess and support children's learning and development. Cannot be used to satisfy supervised field experience requirement for the Child Development Permit.

**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**

*0.5 Unit; 1.5 hours 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**

*0.5 Unit; 1.5 hours 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**

*0.5 Unit; 1.5 hours 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**

*0.5 Unit; 1.5 hours learning center*

*Corequisite: CHI 4*

Requires concurrent enrollment in Chinese 4. 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. Viewing and critiquing 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. Viewing and critiquing 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. Examination of political, economic, and philosophical highlights of their work in front of and behind the camera. Analysis of the societal impact of these 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. Examination of political, economic, and philosophical highlights of the work of women in front of and behind the camera. Societal impact women have had in film.

**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

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

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  
AUDIO AND SOUND DESIGN FOR  
TELEVISION AND FILM**  
3 Units; 3 hours lecture; 1 hour lab  
Transfers: CSU  
Prerequisite: CTVR 101

An advanced hands-on course in audio-production and sound design techniques used for radio, television, film, and new media. Applications and techniques in the areas of recording, mixing, effects, and mastering. Audio terminology and current equipment technology in 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.

**NR**

**CTVR 114  
RADIO STATION ACTIVITIES**  
2 Units; 2 hours lecture; 1 hour lab  
Transfers: CSU  
Recommended Preparation: CTVR 110 and 113

A practical course providing the student with regular and continuing experience in the operation of the college radio station, KSBR-FM and OC Rock Radio, including 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 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. Examines strategies, design, media selection and ethics. Addresses good copy, layout, and production of print and electronic media, including email, e-marketing, e-retailing, web sites, and social media. Covers profit and non-profit organizations; addresses business to business and business to consumer communications. 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; 1 hour lab

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

Recommended Preparation: 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 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, uses, 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 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 marketing 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

### 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; 2.5 hours lecture; 1.5 hours lab  
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 information systems environment.

**NR**

### CIM 112 MICROSOFT OFFICE

3 Units; 2 hours lecture; 3 hours lab  
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.

**NR**

### CIM 120 COMPUTER LITERACY

1.5 Units; 1.5 hours lecture  
Transfers: CSU

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.

**NR**

### CIM 121A KEYBOARDING FOR COMPUTERS - BEGINNING

1.5 Units; 1.5 hours lecture; 0.5 hour lab  
Transfers: CSU

Designed to introduce touch keyboarding of letter, number, and symbol keys on the computer. For business and/or personal use. Introduces basic computer operation; no previous computer or typewriting experience required.

**NR**

### CIM 121B KEYBOARDING FOR COMPUTERS - INTERMEDIATE

1.5 Units; 1.5 hours lecture; 0.5 hour lab  
Transfers: CSU

*Recommended Preparation:* CIM 121A

Builds keyboarding speed and accuracy. Introduces word processing command keys and formats to produce basic tables, business letters, memos, and reports.

**NR**

### CIM 121C KEYBOARDING FOR COMPUTERS - ADVANCED

1.5 Units; 1.5 hours lecture; 0.5 hour lab  
Transfers: CSU

*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.

**NR**

## Computer Info Management Applications

### CIMA 102 WORD PROCESSING - WORD

3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU

Provides training on the use of word processing software. Students will utilize program features to create, edit, and format documents for personal and business use (formerly CIM 214).

**NR**

### CIMA 102A WORD PROCESSING - WORD-BEGINNING

1.5 Units; 1 hour lecture; 1.5 hours lab  
Transfers: CSU

Provides training on the use of computer-based word processing software and/or applications. Covers creating, editing, and formatting personal and business documents (formerly CIM 214A).

**NR**

### CIMA 102B WORD PROCESSING - WORD-ADVANCED

1.5 Units; 1 hour lecture; 1.5 hours lab  
Transfers: CSU

*Recommended Preparation:* CIMA 102A  
Provides skills for the user of word-processing applications software. Recommended for students who possess basic word processing skills (formerly CIM 214B).

**NR**

### CIMA 104 SPREADSHEETS - EXCEL

3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU

Provides information and training in the use of computer-based spreadsheet software for business applications. Workbooks will be produced for a variety of applications (formerly CIM 216).

**NR**

### CIMA 104A SPREADSHEETS - EXCEL-BEGINNING

1.5 Units; 1 hour lecture; 1.5 hours lab  
Transfers: CSU

Entry-level course provides beginning information and training in the use of computer-based spreadsheet software for business applications (formerly CIM 216A).

**NR**

### CIMA 104B SPREADSHEETS - EXCEL-INTERMEDIATE

1.5 Units; 1 hour lecture; 1.5 hours lab  
Transfers: CSU

*Recommended Preparation:* CIMA 104A

Provides information and training in the use of computer-based spreadsheet software for business applications (formerly CIM 216B).

**NR**

### CIMA 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**

### CIMA 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**



**CIMA 202  
ADVANCED WORD PROCESSING -  
WORD**

*3 Units; 3 hours lecture; 1 hour lab*

*Recommended Preparation: CIMA 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**

**CIMA 204  
ADVANCED SPREADSHEETS - EXCEL**

*3 Units; 3 hours lecture; 1 hour lab*

*Recommended Preparation: CIMA 104  
or CIMA 283F*

Develop 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**

**CIMA 206  
ADVANCED DATABASE - ACCESS**

*3 Units; 3 hours lecture; 1 hour lab*

*Recommended Preparation: CIMA 106  
or CIMA 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**

**CIMA 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 and use task paths; 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.

**NR**

**CIMA 223A  
COMPUTERIZED ACCOUNTING -  
QUICKBOOKS—BEGINNING**

*1.5 Units; 1.5 hours lecture; 0.5 hour lab*

*Recommended Preparation: CIMN 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**

**CIMA 223B  
COMPUTERIZED ACCOUNTING -  
QUICKBOOKS—ADVANCED**

*1.5 Units; 1.5 hours lecture; 0.5 hour lab*

*Recommended Preparation: CIMA 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**

**CIMA 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**

**CIMA 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**

**CIMA 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**

**CIMA 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**

**CIMA 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**

**CIMA 283G  
OFFICE SKILLS—DESKTOP  
PRESENTATION FOR BUS  
(POWERPOINT)**

*0.5 Unit; 0.5 hour lecture; 1 hour lab*

Entry-level course to provide 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**

**CIMA 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**

**CIMA 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**

**CIMA 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 e-mail messages, managing contacts, and



business email etiquette. Provides instruction in using Calendar for scheduling appointments, planning meetings, scheduling events, and tasks feature.

**NR**

### **CIMA 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**

## **Computer Info Management Networking & Sp Systems**

### **CIMN 100 COMPUTER OPERATING SYSTEMS- WINDOWS**

*3 Units; 3 hours lecture*

*Transfers: CSU*

Skills include manipulating files and folders in Window's scheme of file management. Competency will be gained using Windows supplied programs to create, save, and print files and customize the desktop. Ability to manage applications and notifications. Use of Edge and Internet Explorer which provides web access will be covered. Ability to install and manage peripheral devices. Set up and use a small network to share information will be introduced. Ability to manage user and accounts and settings and manage power and access options. Students will learn to maintain and optimize their computer's performance, backing up files, using the Microsoft Account and One Drive. End-user techniques for diagnostic and trouble-shooting procedures will be learned. Assignments include weekly hours in BGS 248 or other location (formerly CIM 174).

**NR**

### **CIMN 100A COMPUTER OPERATING SYSTEMS - WINDOWS-BEGINNING**

*1.5 Units; 1.5 hours lecture*

*Transfers: CSU*

Skills include manipulating files and folders in Window's scheme of file management. Competency will be gained using Windows supplied programs to create, save, and print files and customize the desktop. Ability to manage applications and notifications. Use of Edge and Internet Explorer which provides interaction via the web, will be covered. Students will have the ability to install and manage peripheral devices. End-user techniques for diagnostic and trouble-shooting procedures will be learned. Assignments include weekly hours in BGS 248 or other location (formerly CIM 174).

**NR**

### **CIMN 100B COMPUTER OPERATING SYSTEMS - WINDOWS-INTERMEDIATE**

*1.5 Units; 1.5 hours lecture*

*Transfers: CSU*

*Recommended Preparation: CIMN 100A*

Setting up and using a small network to share information will be introduced. Ability to manage user and accounts and settings as well as manage power and access options. Students will learn to maintain and optimize their computer's performance, protecting data and computer, backing up files, using the Microsoft Account and One Drive. End-user techniques for diagnostic and trouble-shooting procedures will be learned. Assignments include weekly hours in BGS 248 or other location (formerly CIM 174).

**NR**

### **CIMN 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 172, CIMN 230).

**NR**

### **CIMN 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).

**NR**

### **CIMN 210 NETWORKING ESSENTIALS AND TECHNOLOGIES**

*3.5 Units; 3 hours lecture; 1 hour lab*

Presents LAN and WAN technologies in detail. Covers network operations, design concepts, and protocols. Students will learn how to make infrastructure components and set up workstations for LAN operability and WAN interoperability. LAN and WAN networks will be designed and implemented using hubs, switches, and routers. Basic Cisco switch and router programming and troubleshooting strategies are included (formerly CIM 252).

**NR**

### **CIMN 220A MCSE CERTIFICATION EXAM PREP I**

*3 Units; 2.5 hours lecture; 1.5 hours lab*

MCSE Exam 70-410. Covers Installing and Configuring Windows Server 2012 through simulations, practice tests, and feedback (formerly CIM 292A).

**NR**

### **CIMN 220B MCSE CERTIFICATION EXAM PREP II**

*3 Units; 2.5 hours lecture; 1.5 hours lab*

MCSE Exam 70-411. Covers Administering Windows Server 2012 through simulations, practice tests, and feedback (formerly CIM 292B).

**NR**

### **CIMN 220C MCSE CERTIFICATION EXAM PREP III**

*3 Units; 2.5 hours lecture; 1.5 hours lab*

MCSE Exam 70-412. Covers Configuring Advanced Windows Server 2012 Services through simulations, practice tests, and feedback (formerly CIM 292C).

**NR**

### **CIMN 240 FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION**

*3 Units; 3 hours lecture*

*Recommended Preparation: CIMN 230*

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; administering printing subsystems; system log responsibilities; backing up file systems; configuring the kernel; basic performance, memory, and process management; and basic troubleshooting. Includes creation of shell scripts to automate system administration tasks (formerly CIM 256).

**NR**

### **CIMN 250 NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX**

*3 Units; 3 hours lecture*

*Recommended Preparation: CIMN 240*

Guides students through the fundamental responsibilities of Unix/Linux system administrator in building and maintaining an internal LAN using multipurpose servers. Topics will cover TCP/IP administration; installing and maintaining SMB protocols; and installing and maintaining basic server applications such as sendmail, DHCP, and DNS. Includes introductions to database backends, network security, developing a security policy, file and file system security,

password security, service-based security, and firewalls. The student will learn to set up a Unix/Linux internal server and configure common network services and security at a basic level (formerly CIM 257).

**NR**

### **CIMN 260 CISCO CCNA**

*3 Units; 3 hours lecture*

Qualifies the student to take the Cisco CCNA exam. Provides a firm foundation of Cisco's IOS, routing and protocols, layered communications, and WAN strategies (formerly CIM 297).

**NR**

## **Computer Info Management Programming**

### **CIMP 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 - JAVA-BEGINNING**

*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 CIM 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 CIM 7B).

**NR**

### **CIMP 8A PROGRAMMING WITH PYTHON**

*3 Units; 2 hours lecture; 3 hours lab*

*Transfers: CSU, UC*

Introductory course teaching a program widely used in multiple fields. Basic syntax, variables, strings, conditions, loops, classes, utilities, and frameworks will be introduced. No prior coding experience necessary to learn to apply programming concepts on practical exercises (formerly CIMP 110).

**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 CIM 287).

**NR**

### **CIMP 210 MS SQL SERVER BUSINESS INTELLIGENCE DEV/T-SQL**

*3 Units; 3 hours lecture*

Transact-SQL allows developers to write ad hoc queries, involving select, Insert, update and delete, as well as to write and invoke complex stored procedures, functions, integration packages, and web-based reports. Students will learn how to create and write queries, functions and triggers and also retrieve and maintain data using Transact-SQL.

**NR**

### **CIMP 220 ANDROID MOBILE APPS - BEGINNER**

*3.5 Units; 3 hours lecture; 1.5 hours lab*

Create mobile Android applications. Installing and using Android Studio and the latest 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**

#### **WINDOWS 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 CIM 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**

### **Computer Info Management Security**

### **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 284).

**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*

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**

### **Computer Info Management Web Development**

### **CIMW 100 WEB SITE DEVELOPMENT - HTML**

*3 Units; 3 hours lecture*

*Transfers: CSU*

*Recommended Preparation: CIMN 100  
or CIMN 100 A/B*

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.

**NR**

### **CIMW 100A WEB SITE DEVELOPMENT - HTML- BEGINNING**

*1.5 Units; 1.5 hours lecture*

*Transfers: CSU*

*Recommended Preparation: CIMN 100  
or CIMN 100A/B*

Utilize HTML code to construct basic web pages and web sites. Topics include text formatting commands, links, and email. Use CSS to configure color, text and page layout. Identify and use recommended Web site design practices. Use visual elements, graphics, hyperlinks, lists, columns, page layout and print styling in web pages and web sites, using CSS when appropriate. Identify and apply steps to publish web pages to a server using FTP software (formerly CIM 271A).

**NR**

### **CIMW 100B WEB SITE DEVELOPMENT - HTML-ADVANCED**

*1.5 Units; 1.5 hours lecture*

*Transfers: CSU*

*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 Java applets (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**

### **CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS**

*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**



**CIMW 134**  
**WEB DIGITAL MEDIA- PHOTOSHOP**  
**AND INTRO TO VIDEO EDITING**

*3 Units; 2.5 hours lecture; 1.5 hours lab*  
*Transfers: CSU*

Fundamentals of digital image processing, retouching, and painting as used on the web in business. Course explores fundamental concepts of Digital Media production, including manipulating images both conceptually and technically. Students will create digital artworks using current information technology software such as Adobe Photoshop. All projects will be presented on student websites. Students will create projects in digital imaging, net.art/websites, and digital video. Basic video editing will be done using Adobe Photoshop and Premiere Pro. Adobe After Effects will be used to add special effects to videos. Student artworks will emphasize creativity, critical thinking, problem solving and computer literacy.

**NR**

**CIMW 140**  
**CSS (CASCADING 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) Frameworks like Skeleton, Bootstrap, and flex displays, HTML5, and CSS3/CSS4 media query (formerly CIM 272 and CIMW 240).

**NR**

**CIMW 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, 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**

**CIMW 160**  
**WEB DEVELOPMENT - JAVASCRIPT,**  
**FRAMEWORKS, JQUERY AND AJAX**

*3 Units; 3 hours lecture*  
*Transfers: CSU*

Client-side World Wide Web (WWW) development using JavaScript and JavaScript Frameworks including: jQuery, jQuery UI (User Interface), RWD (Responsive Web Design) Frameworks like Bootstrap and introduction to Asynchronous JavaScript and XML (AJAX). Includes an overview of basic JavaScript programming: data types, operators, functions, events, control structures, Browser Object Model, Window Object Model, Document Object Model, HTML forms, JavaScript regular expression validation, web browser debugging, cookies, CSS style object, and website mashups using AJAX (formerly CIM 269B and CIMW 260).

**NR**

**CIMW 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**

**CIMW 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 CIMW 250A).

**NR**

**CIMW 262**  
**AJAX-ADVANCED JAVASCRIPT WITH**  
**XML**

*3 Units; 3 hours lecture*

Provides students with the knowledge and skills necessary to use JavaScript, XML, and server-side languages to develop dynamic Web-based applications. Topics of study include the use of asynchronous JavaScript, the Document Object Model, XML in Web page requests, server-side languages (e.g. PHP, Java) to query and return information from a relational database, and how to design and develop new AJAX applications (formerly CIM 231).

**NR**

**CIMW 280**  
**WEB DESIGN - CAPSTONE PORTFOLIO**  
**PROJECT**

*1.5 Units; 1.5 hours lecture*

Enables the student to demonstrate the mastery of the learning objectives in the Webmaster, Web Designer, or E-Commerce Specialist programs. Guides the student through the process of developing a portfolio. Focuses on demonstration of the knowledge, skills, and techniques required to plan, develop, and implement a portfolio website on the World Wide Web (WWW). Includes discussion on advanced Flash sites, CSS sites, Adobe Creative Suite, Adobe Dreamweaver, RWD, SEO, image viewers, and use of various technologies to develop a portfolio website. Also includes comprehensive review of basic concepts covered in certificate courses: Dreamweaver, HTML, CSS, JavaScript, SQL and PHP. Should be taken in the final semester of the program (formerly CIM 298).

**NR**

**Computer Information**  
**Systems**

**CIS 405**  
**WORKFORCE PREPARATION**  
**DATABASE SQL ZERO UNIT**

*0 Unit; 3 hours lecture; 2 hours lab*

Introduction to relational databases and the Structured Query Language (SQL). Course uses SQL 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, SQL database administration, data definition and manipulation, views, sorting, triggers, constraints, indexes and basic introduction to PL/SQL.

**R\_3**

**CIS 415**  
**CREATING WEB PAGES USING ADOBE,**  
**HTML, CSS AND OTHER TOOLS**

*0 Unit; 3 hours lecture; 2 hours lab*

Course provides work force preparation in web development, client-side web page creation using Dynamic HTML (DHTML), Adobe Creative Cloud, WordPress, cloud drives, Bootstrap and other popular products. Class focuses on basic HTML, CSS, CSS3, RWD (Response Web Design) and relevant Adobe Creative development tools. Discuss how to W3C validate and 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 frameworks like Bootstrap, HTML5, and CSS3 media query.

**R\_3**



**CIS 460**  
**WORKFORCE PREP WEB DEVELOPMENT**  
**INTRODUCTION PROGRAMMING**  
*0 Unit; 3 hours lecture; 2 hours lab*

Course provides work force preparation in web development programming at both the client and server-side. Class covers basic problem solving skills using computer programming and scripting languages. Class covers programming language data types, control structures, operators, functions, events, objects, classes flow control, syntax, debugging, IDE (Integrated Developers Environment), and software development strategies. Course includes analysis of client-side versus server-side programming environments and languages.

**R\_3**

**Computer Maintenance  
Technology**

**CMT 215**  
**ELECTRONICS FOR COMPUTER**  
**TECHNOLOGISTS**

*3 Units; 3 hours lecture*

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 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*

*Recommended Preparation: CMT 220*

Second course in the sequence covering the basics of computer maintenance and repair. Includes printers, modems and communication devices, video adapters and displays, sound cards, introductory network concepts, Windows software issues, computer security, and computer troubleshooting. Lab exercises provide hands-on experience of the topics being studied.

**NR**

**CMT 230**  
**APPLIED NETWORK TECHNOLOGY**  
*3 Units; 2.5 hours lecture; 1.5 hours lab*  
*Recommended Preparation: CMT 225*

Study of computer networks for technicians. Includes network wiring, connectors, repeaters, hubs, routers, bridges and their application to system specifications and the OSI model and its protocols. Installation, troubleshooting, and maintenance of computer networks and network hardware are emphasized in the laboratory.

**NR**

**CMT 235**  
**A+ EXAM PREPARATION FOR**  
**COMPUTER SERVICE TECHNICIANS**

*3 Units; 3 hours lecture*

*Recommended Preparation: CMT 220, 225, 230*

Preparation and review for the A+ Certification Exams for computer service technicians. Covers topics for all exams. Test taking strategies and practice tests will be covered.

**NR**

**Computer Science**

**CS 1A**  
**INTRODUCTION TO COMPUTER**  
**SCIENCE I**

*3.5 Units; 3 hours lecture; 2 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**

*3.5 Units; 3 hours lecture; 2 hours lab*

*Transfers: CSU, UC*

*Prerequisite: 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**

*3.5 Units; 3 hours lecture; 2 hours lab*

*Transfers: CSU, UC*

*Prerequisite: 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**

*3.5 Units; 3 hours lecture; 2 hours lab*

*Transfers: CSU, UC*

*Prerequisite: CS 1B*

*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**

*3.5 Units; 3 hours lecture; 2 hours lab*

*Transfers: CSU, UC*

*Prerequisite: CS 1A*

*Recommended Preparation: MATH 253*

An introductory course in computer organization with emphasis on machine language programming. Concepts covered include finite precision arithmetic, floating point architecture, Boolean Algebra, computer systems organization, microprogramming, and conventional machine language programming with the corresponding assembly language notation.

**NR**

**CS 3B**  
**COMPUTER ORGANIZATION AND**  
**ASSEMBLY LANGUAGE**

*3.5 Units; 3 hours lecture; 2 hours lab*

*Transfers: CSU, UC*

*Prerequisite: 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**

3.5 Units; 3 hours lecture; 2 hours lab

Transfers: CSU, UC

Prerequisite: CS 1B

An introduction to developing Java applications and applets. Topics include classes, inheritance, exceptions, arrays, vectors, recursion, streams, the abstract windowing tool kit, and swing components.

**NR**

### **CS 4B ADVANCED TOPICS IN JAVA FOR COMPUTER SCIENCE**

3.5 Units; 3 hours lecture; 2 hours lab

Transfers: CSU, UC

Prerequisite: CS 4A

Advanced topics in Java including core class libraries, the swing components, the collections framework, multi-threading, servlets, JSP, RMI, JDBC, and software engineering concerns.

**NR**

## **Cooperative Work Experience**

### **CWE 180 COOPERATIVE WORK EXPERIENCE - ACCOUNTING**

1 Unit; 4.52 hours learning center

Transfers: CSU

Recommended Preparation: ACCT 1A and 1B

Hands on accounting career experience through cooperative work experience with community businesses and organizations. Students may be placed in temporary work assignments that represent work performed by accounting 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.

**NR**

### **CWE 180 COOPERATIVE WORK EXPERIENCE - ACCOUNTING**

2 Units; 9.04 hours learning center

Transfers: CSU

Recommended Preparation: ACCT 1A and 1B

Hands on accounting career experience through cooperative work experience with community business 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 - 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 COOPERATIVE WORK EXPERIENCE - ARCHITECTURAL INTERNSHIP**

1 Unit; 4.52 hours learning center

Transfers: CSU

Prerequisite: ARCH 120

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.

**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 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.

**R-I-3**

### **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-BUSINESS**

4 Units; 18.1 hours learning center

Transfers: CSU

Hands-on experience in business management. Provides intermediate to advanced 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 COOPERATIVE WORK EXPERIENCE- CINEMA, TV, RADIO**

1 Unit; 4.52 hours learning center

Transfers: CSU

Hands-on experience for students in radio, television, and cinema production. 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.

**NR**

**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.

**NR**

**CWE 180  
CO-OP-ED COMPUTER MAINTENANCE  
TECHNOLOGY**

*1 Unit; 4.52 hours learning center*

*Transfers: CSU*

Paid or unpaid supervised industry experience in computer maintenance technology. The work assignment and objectives are arranged jointly between Saddleback College, the company, and the student. 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 COMPUTER MAINTENANCE  
TECHNOLOGY**

*2 Units; 9.04 hours learning center*

*Transfers: CSU*

Paid or unpaid supervised industry experience in computer maintenance technology. The work assignment and objectives are arranged jointly between Saddleback College, the company, and the student. 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 CULINARY ARTS**

*2 Units; 9.04 hours learning center*

*Transfers: CSU*

Students learn professional principles in the hospitality industry 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. Work site must be approved by instructor prior to enrollment.

**R-I-4**

**CWE 180  
CO-OP-ED ENTERTAINMENT AND  
THEATRE TECHNOLOGY**

*2 Units; 9.04 hours learning center*

*Transfers: CSU*

*Prerequisite: ETT 40*

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 COMMERCIAL MUSIC**

*2 Units; 9.04 hours learning center*

*Transfers: CSU*

Provides hands-on experience for students in Commercial Music. Includes direct application of theory in music business, commercial music performance and music technology. 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 ECOLOGICAL RESTORATION**

*1 Unit; 4.52 hours learning center*

*Transfers: CSU*

Students select an off-campus assignment at a local ecological restoration site and complete individually determined objectives. Provides hands-on experience in applying specific field and lab techniques. Students analyze specific 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 ECOLOGICAL RESTORATION**

*2 Units; 9.04 hours learning center*

*Transfers: CSU*

Students select an off-campus assignment at a local ecological restoration site and complete individually determined objectives. Provides hands-on experience in applying

specific field and lab techniques. Students analyze specific 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 ELECTRONIC TECHNOLOGY**

*1 Unit; 4.52 hours learning center*

*Transfers: CSU*

Paid or unpaid supervised industry experience in electronic technology. The work assignment and objectives are arranged jointly between Saddleback College, the company, and the student. 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 ELECTRONIC TECHNOLOGY**

*2 Units; 9.04 hours learning center*

*Transfers: CSU*

Paid or unpaid supervised industry experience in electronic technology. The work assignment and objectives are arranged jointly between Saddleback College, the company, and the student. 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 ENVIRONMENTAL  
MONITORING AND ASSESSMENT**

*1 Unit; 4.52 hours learning center*

*Transfers: CSU*

Students select an off-campus assignment at an environmental organization or business and complete individually determined objectives. Provides hands-on experience in evaluating and analyzing specific environmental issues and preparing 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 ENVIRONMENTAL  
MONITORING AND ASSESSMENT**

2 Units; 9.04 hours learning center

Transfers: CSU

Students select an off-campus assignment at an environmental organization or business and complete individually determined objectives. Provided hands-on experience in evaluating and analyzing specific environmental issues and preparing 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 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 FOODS AND NUTRITION**

1 Unit; 4.52 hours learning center

Transfers: CSU

Students learn professional principles in a 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-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.

**R-I-1**

**CWE 180  
CO-OP-ED-HORT & LANDSCAPE**

1 Unit; 4.52 hours learning center

Transfers: CSU

Provides hands-on experience for students in the care and production of plants, trees, and shrubs commonly used in landscape design, retail and wholesale nurseries, and parks. 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 INTERIOR DESIGN**

1 Unit; 4.52 hours learning center

Transfers: CSU

Prerequisite: ID 129

Provides hands-on experience as an Interior Design Assistant for students enrolled in their second year of the program. Students develop specific and individual design skills as a part of the Interior Design program. 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 INTERNSHIP FOR  
PRE-THERAPY STUDENTS**

1 Unit; 4.52 hours learning center

Transfers: CSU

Limitation: Physician clearance, immunizations, liability insurance, and background check.

Recommended Preparation: BIO 11 and HSC 151/KNEA 151

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.

**NR**

**CWE 180  
CO-OP-ED INTERNSHIP FOR  
PRE-THERAPY STUDENTS**

2 Units; 9.04 hours learning center

Transfers: CSU

Limitation: Physician clearance, immunizations, liability insurance, and background check.

Recommended Preparation: BIO 11 and HSC 151/KNEA 151

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.

**NR**

**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. A maximum of four units may be applied toward major requirements for certificate.

**NR**

**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. 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**  
**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.

**NR**

**CWE 180**  
**CWE, NEW GRAD RN TRANSITION**  
**INTERSHIP**

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.

**NR**

**CWE 180**  
**CO-OP-ED PHLEBOTOMIST**

2 Units; 9.04 hours learning center

Transfers: CSU

Limitation: Official acceptance into the MLT Program.

Corequisite: PHLB 240

Provides direct patient care experience for students seeking venipuncture certification. Includes on-site experience in obtaining and processing specimens for a clinical laboratory. Leads to certification as a phlebotomist/laboratory assistant. 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 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**

## Cosmetology

**COS 211**  
**COSMETOLOGY FRESHMAN-LEVEL 1**

12 Units; 6 hours lecture; 18.1 hours lab

Limitation: Students must be a minimum of 16 years of age to enroll in this course. California State Board of Barbering and Cosmetology Business and Professions Code Section 7321 provides that the minimum qualifications for an applicant to sit for the licensure examination are that the applicant: (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

First 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 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.

**R-E-3**

**COS 211A**  
**COSMETOLOGY FRESHMAN-LEVEL 1A**

6 Units; 3 hours lecture; 9.05 hours lab

Limitation: Students must be a minimum of 16 years of age to enroll in this course. California State Board of Barbering and Cosmetology Business and Professions Code Section 7321 provides that the minimum qualifications for an applicant to sit for the licensure examination are that the applicant: (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.

First in a series of eight, 200 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 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. Six units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 211B**  
**COSMETOLOGY FRESHMAN-LEVEL 1B**

6 Units; 3 hours lecture; 9.05 hours lab

Prerequisite: COS 211A or completion of 200 hours

Second in a series of eight, 200 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 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. 6 units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 212**  
**COSMETOLOGY INTERMEDIATE-LEVEL 2**

12 Units; 6 hours lecture; 18.1 hours lab

Prerequisite: COS 211 or 211A/B 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 licensing examination and success in a career in the cosmetology industry. Includes both classroom instruction and laboratory practice required by the California State Board. Successful 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.

**R-E-3**

**COS 212A**  
**COSMETOLOGY INTERMEDIATE-LEVEL 2A**

6 Units; 3 hours lecture; 9.05 hours lab

Prerequisite: COS 211 or COS 211B or completion of 400 hours.

Third in a series of eight, 200 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 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. Six units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 212B  
COSMETOLOGY INTERMEDIATE-  
LEVEL 2B**

*6 Units; 3 hours lecture; 9.05 hours lab*

*Prerequisite: COS 212A or completion of 600 hours*

Fourth in a series of eight, 200 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 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. Six units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 213  
COSMETOLOGY ADVANCED-LEVEL 3**

*12 Units; 6 hours lecture; 18.1 hours lab*

*Prerequisite: COS 212 or 212A/B 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.

**R-E-3**

**COS 213A  
COSMETOLOGY ADVANCED-LEVEL 3A**

*6 Units; 3 hours lecture; 9.05 hours lab*

*Prerequisite: COS 212 or COS 212B 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. Fifth in a series of eight, 200 hour courses. 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. Six units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 213B  
COSMETOLOGY ADVANCED-LEVEL 3B**

*6 Units; 3 hours lecture; 9.05 hours lab*

*Prerequisite: COS 213A or completion of 1000 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. Sixth in a series of eight, 200 hour courses. 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. Six units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 214  
COSMETOLOGY SENIOR-LEVEL 4**

*12 Units; 6 hours lecture; 18.1 hours lab*

*Prerequisite: COS 213 or 213A/B or completion of 1,200 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 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.

**R-E-3**

**COS 214A  
COSMETOLOGY SENIOR-LEVEL 4A**

*6 Units; 3 hours lecture; 9.05 hours lab*

*Prerequisite: COS 213 or COS 213B or completion of 1,200 hours*

This senior level course is designed to prepare the student for the California State Board of Barbering and Cosmetology licensing examination and success in career in cosmetology. Seventh in a series of eight, 200 hour courses. 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. Six units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 214B  
COSMETOLOGY SENIOR-LEVEL 4B**

*6 Units; 3 hours lecture; 9.05 hours lab*

*Prerequisite: COS 214A or completion of 1,400 hours*

This senior level course is designed to prepare the student for the California State Board of Barbering and Cosmetology licensing

examination and success in career in cosmetology. Final course in a series of eight, 200 hour courses. 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. Six units are granted upon successful completion of the 200 classroom/laboratory hours.

**R-E-3**

**COS 440  
COSMETICIAN**

*18 Units; 9 hours lecture; 27.5 hours lab*

*Limitation: Students must be a minimum of 16 years of age to enroll in this course. California State Board of Barbering and Cosmetology Business and Professions Code provides that the minimum qualifications for an applicant to sit for the licensure examination are that the applicant: (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 or and 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, microdermabrasion, 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 8  
DANCE PEDAGOGY***3 Units; 2 hours lecture; 3 hours lab**Transfers: CSU, UC*

Course will prepare students for studio and/or classroom teaching of dance technique. Topics will include basic anatomy for dancers, alignment and posture corrections, vocabulary for dance genres, nutrition, audition and performance preparation, music selection, classroom management skills and curriculum design. Students will design and implement lesson plans in various dance genres, learn to work with specialized populations, be able to identify major muscle groups in the body, create sample playlists and classes, and learn how to adapt curriculum and vocabulary to different levels (formerly DANC 108).

**NR****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 and 19.

**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 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 10, 11, 12, and 14.

**NR****DANC 11  
DANCE REHEARSAL AND PERFORMANCE***1 Unit; 3 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 10, 11, 12, and 14.

**NR****DANC 11  
DANCE REHEARSAL AND PERFORMANCE***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 10, 11, 12, and 14.

**NR****DANC 12  
INTERMEDIATE DANCE PRODUCTION***1 Unit; 3 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 10, 11, 12, and 14. Formerly DANC 112.

**NR**



## **DANC 12 INTERMEDIATE DANCE PRODUCTION**

2 Units; 6 hours lab

Transfers: CSU, UC

Recommended Preparation: DANC 10

Emphasizing 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 10, 11, 12, and 14. Formerly DANC 112.

**NR**

## **DANC 14 INTERMEDIATE DANCE REHEARSAL AND PERFORMANCE**

1 Unit; 3 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 10, 11, 12, and 14. Formerly DANC 114.

**NR**

## **DANC 14 INTERMEDIATE DANCE REHEARSAL AND PERFORMANCE**

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 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 II**

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 19 CHOREOGRAPHY II**

3 Units; 2 hours lecture; 3 hours lab

Transfers: CSU, UC

Prerequisite: DANC 9

Students build upon skills gained in DANC 9, and explore choreography and technical theatre elements in greater depth through individual, small-group and ensemble choreography projects and writing assignments. Advanced topics include working with technology (music/video editing, projections and social media), adding improvisational scores, costume design, non-proscenium work, interdisciplinary studies, and application of theory fundamentals. Students will also create movement studies based on the

work and theories of international choreographers. Culminates in an informal studio showing of a full work of choreography, demonstrating the student's understanding of artistic skills and techniques gained over the course of the semester (formerly DANC 119). Students are limited to a combined total of four enrollments in DANC 9 & 19.

**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. 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*

Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of ballet techniques are presented and practiced in class with presentations of historical and stylistic perspectives of this dance form. Emphasizes class participation providing the student with knowledge and understanding of the physical demands of ballet dance. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71.

**NR**

### **DANC 51 INTRODUCTION TO BALLET**

*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 ballet techniques are presented and practiced in class with presentations of historical and stylistic perspectives of this dance form. Emphasizes class participation providing the student with knowledge and understanding of the physical demands of ballet dance. 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*

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  
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 53 INTERMEDIATE BALLET**

*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 at the intermediate level. 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  
Transfers: CSU, UC*

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 54 INTRODUCTION TO MODERN DANCE**

*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 modern dance techniques are presented and practiced in class, with 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  
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 be included. 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**

*1.5 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 be included. 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  
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 56 INTERMEDIATE MODERN DANCE**

*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 57 INTRODUCTION TO JAZZ DANCING**

*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 the student 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 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC*

Designed for students with beginning experience in dance, as well as those wishing to perfect jazz dancing skills. Jazz dancing techniques are presented and practiced in class including historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of jazz dancing. 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  
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 59 INTERMEDIATE JAZZ DANCING**

*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  
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 61 TAP DANCING LEVEL I**

*1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC*

Designed for students with beginning experience in tap dancing as well as those wishing to progress in tap dancing 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  
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  
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 KNES 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**

### **DANC 65 INTRODUCTION TO MAT PILATES**

*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 KNES 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**

### **DANC 66**

#### **INTRODUCTION TO LATIN DANCE**

*1 Unit; 0.5 hours lecture; 1.5 hours lab*

*Transfers: CSU, UC*

Explores the international forms of Latin dance such as salsa, tango, mambo, paso doble. Combinations will be presented to gain strength, coordination and agility. Students are limited to a combined total of four enrollments in DANC 66 and 70.

**NR**

### **DANC 67**

#### **POINTE BALLET**

*1 Unit; 0.5 hours lecture; 1.5 hours lab*

*Transfers: CSU, UC*

*Recommended Preparation: DANC 53*

Pointe ballet training with an emphasis on individual ballet skills in balance, strength, alignment and positions for dance in pointe shoes. Adagio and allegro exercises will be presented at the ballet barre and center-floor. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71.

**NR**

### **DANC 67**

#### **POINTE BALLET**

*1.5 Units; 1 hour lecture; 2 hours lab*

*Transfers: CSU, UC*

*Recommended Preparation: DANC 53*

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.

**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*

*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 71**

#### **ADVANCED BALLET**

*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*

*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 72**

#### **ADVANCED MODERN DANCE**

*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 73**

#### **ADVANCED JAZZ DANCE**

*1.5 Units; 1 hour lecture; 2 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.

**NR**

### **DANC 74**

#### **MULTICULTURAL 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, 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****DANC 83  
AFRICAN DANCE II**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

History, technique and performance of various styles of African Dance, with an emphasis on class participation and further development of movement skills. The course will also emphasize musicality and study of increasingly complex percussive rhythms (formerly DANC 183). Students are limited to a combined total of four enrollments in DANC 83 and 182.

**NR****DANC 182  
AFRICAN DANCE I**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU

Introduction to the history, technique and performance of various styles of African Dance, with an emphasis on class participation and development of basic movement skills. The course will also emphasize musicality and an introduction to percussive rhythms. Students are limited to a combined total of four enrollments in DANC 83 and 182.

**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 51  
COMPUTER-AIDED DRAFTING**

3 Units; 2 hours lecture; 4 hours lab  
Transfers: CSU, UC

Recommended Preparation: DR or ARCH 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 ARCH 51. 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

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 drawing skills. A computer-aided drafting (CAD) system will be used.

**NR****DR 102  
MECH DESIGN AND MARKETING PORTFOLIO**

3 Units; 1.5 hours lecture; 4.5 hours lab  
Transfers: CSU

Develops basic skills needed for industrial-level mechanical and conceptual design including assembly drawings, detail drawings, fundamentals of mechanical design, and strategies for creative design. A computer aided design (CAD) system will be used. Create and develop a hybrid Electronic-Physical Portfolio of Technical Drawings/Architectural Drawings, which showcase the student work.

**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/ARCH 50 or DR/ARCH 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**



## **DR 200 3D PARAMETRIC MODELING - SOLIDWORKS**

3 Units; 2 hours lecture; 4 hours lab

*Recommended Preparation: DR/ARCH  
50*

Operation and application of modern computer-aided design using Solidworks. Includes development of 3D computer models from concept to component parts, drawings, and assemblies.

**NR**

## **DR 201 ADVANCED 3D PARAMETRIC MODELING - SOLIDWORKS**

3 Units; 2 hours lecture; 4 hours lab

*Recommended Preparation: DR 200*

Advanced operation and application of modern computer-aided design using Solidworks. Includes development of 3D computer models from concept to component parts, drawings, and assemblies. Creation of parts using surface modeling, the study of parts using Finite Element Analysis, and the application of Motion Analysis in Assemblies.

**NR**

## **DR 202 GEOMETRIC DIMENSIONING AND TOLERANCING**

3 Units; 2 hours lecture; 4 hours lab

*Recommended Preparation: DR/ARCH  
50*

Review of conventional dimensioning (non geometric dimensioning) and the introduction of geometric dimensioning and tolerancing using Solidworks.

**NR**

## **DR 203 GREEN & SUSTAINABLE MANUFACTURING DESIGN**

3 Units; 1.5 hours lecture; 4.5 hours lab

Presents the developing and evolving fields for innovative designs of products that minimize the carbon footprint and reduce the impact of product manufacture and life-cycle use upon the environment.

**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**

### **ECOL 202 ADVANCED ECOLOGICAL RESTORATION TECHNIQUES**

4 Units; 3 hours lecture; 3 hours lab

An advanced course in practical and theoretical ecological restoration techniques. Political, social, and scientific considerations in restoration will be discussed. Laboratory

exercises will include field techniques for planting, irrigating, and monitoring restoration sites. Field trips will be required.

**NR**

## **Economics**

### **ECON 2 PRINCIPLES (MACRO)**

3 Units; 3 hours lecture

*Transfers: CSU, UC*

*Prerequisite: MATH 253*

Economic analysis of theories of income determination including national income measurement, unemployment, inflation, economic growth, monetary and fiscal policy, banking and money creation, and international finance. Explores consumption, saving, investment, government spending, exports, and imports.

**NR**

### **ECON 2H HONORS PRINCIPLES OF MACROECONOMICS**

3 Units; 3 hours lecture

*Transfers: CSU, UC*

*Prerequisite: Math 253*

Analysis of income determination including national income measurement, unemployment, inflation, economic growth, monetary and fiscal policy, money creation, and international finance. Explores consumption, saving, investment, government spending, exports, and imports. The honors course is enriched by smaller class size, additional analytical techniques, increased use of mathematical modelling, and the completion of a research project. Credit may be earned for either 2 or 2H, but not both.

**NR**

### **ECON 4 PRINCIPLES (MICRO)**

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 4H HONORS PRINCIPLES OF MICROECONOMICS**

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**

### **ECON 20 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**

## **Electronic Technology**

### **ET 101 SURVEY OF ELECTRONICS**

3 Units; 3 hours lecture

*Transfers: CSU*

Basics of electronics for non-majors or those exploring possible interest in the field.

**NR**

### **ET 114 DIGITAL ELECTRONIC CIRCUITS**

4 Units; 3 hours lecture; 3 hours lab

*Transfers: CSU*

*Recommended Preparation: ET 133*

Fundamentals of logic and circuits for digital electronics. Includes binary arithmetic, Boolean algebra, logic gates, digital technologies, memory circuits, A/D and D/A converters, addition/subtraction circuits,

shift registers, counters, clock and timing circuits, and multiplexers/ demultiplexers. Laboratory experiments emphasize testing and troubleshooting of common circuits.

**NR**

### **ET 118 ELECTRONIC COMMUNICATION SYSTEMS**

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU

Recommended Preparation: ET 114 and 135

Principles of modern electronic communication systems, including radio, data, digital, and opto-electronic systems. Study of noise analysis, modulation methods, networks, transmission lines, antennas, and other important system components and considerations. Includes analytical principles and equations as well as practical applications and troubleshooting.

**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 Unit; 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 207C

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**

1 Unit; 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

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**

1.5 Units; 1 hour lecture; 1.5 hours 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, including 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

### ENG 1A PRINCIPLES OF COMPOSITION I

4 Units; 4 hours lecture

Transfers: CSU, UC

Prerequisite: Placement by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

Focuses on composing academic-style expository and argumentative essays; essays feature a comprehensive thesis and logical support. Students will write original compositions increasing in level of difficulty and length, totaling at least 6,000 words, which will use rhetorical strategies such as textual analysis, causal analysis, comparison/contrast and argument. Students will read, interpret, and synthesize non-fiction sources using Standard Written English and MLA format. Credit may be earned for ENG 1A or ENG 1AH but not both.

**NR**

### ENG 1AH HONORS PRINCIPLES OF COMPOSITION I

4 Units; 4 hours lecture

Transfers: CSU, UC

Prerequisite: Placement by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

Focuses on composing the academic-style expository essay, which features a comprehensive thesis and logical support, including use of scholarly sources. Students will write original compositions increasing in level of difficulty and length, totaling at least 6,000 words, which will use rhetorical strategies such as textual analysis, causal analysis, comparison and argument, building toward a capstone project featuring an argumentative essay with an oral presentation. Students will read, interpret, and synthesize complex, interdisciplinary non-fiction sources using Standard Written English and MLA format. Credit may be earned for ENG 1A or ENG 1AH, but not both.

**NR**

### ENG 1B 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 1B or 1BH, but not both.

**NR**

### ENG 1BH 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**

### ENG 3 INTRODUCTION TO CREATIVE WRITING

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

Emphasizes the writing of prose, poetry, and drama stressing critical judgment of these forms.

**NR**

### ENG 4 FICTION FUNDAMENTALS

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

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**

### ENG 15A SURVEY OF AMERICAN LITERATURE - 1620-1860

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

Emphasizes major ideas, authors, and forms in American literature during the 17th, 18th, and early 19th centuries.

**NR**

### ENG 15B SURVEY OF AMERICAN LITERATURE - 1860-CONTEMPORARY

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A by the current assessment process or successful completion of ENG 200, 390 or comparable course with a grade of "C" or better.

Emphasizes major ideas, authors, and forms from the late 19th century to the present.

**NR**

### ENG 17A SURVEY OF ENGLISH LITERATURE - BEOWULF TO ROMANTIC MOVEMENT

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

Covers 9th century to 1796: Anglo-Saxon, Medieval, Tudor, Renaissance, 17th century and Neoclassical literature.

**NR**

### ENG 17B SURVEY OF ENGLISH LIT - ROMANTIC MOVEMENT TO THE PRESENT

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

Covers 1796 to present. Romantic, Victorian, Modern, and Post-Modern literature will be discussed in relation to social and political backgrounds.

**NR**



**ENG 18  
SHAKESPEARE - THE TRAGEDIES**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: Eligibility for ENG 1A

An in-depth study of representative plays and criticism, illustrating Shakespeare's mastery of poetic and theatrical techniques and psychological portraiture within the framework of the genre of English Renaissance tragedy.

**NR**

**ENG 19  
SHAKESPEARE - THE COMEDIES**

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 by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

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 by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

A survey of major authors and literary forms from the 17th century to the modern period from world cultures.

**NR**

**ENG 22  
INTRODUCTION TO SHAKESPEARE**

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A

A study of representative works from Shakespeare, including comedies, tragedies, and histories.

**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 and field research. Credit may be earned for ENG 27A or 27AH, but not both. Letter grade only.

**NR**

**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: Eligibility for ENG 1A or 3

Designed to assist students in the planning, development, and marketing of book-length fiction and non-fiction.

**NR**



## **ENG 142 CHILDREN'S LITERATURE**

3 Units; 3 hours lecture

Transfers: CSU

*Prerequisite:* Eligibility for ENG 1A by the current assessment process or successful completion of ENG 200, 390, or comparable course with a grade of "C" or better.

Covers basic information about children's cognitive development, the history of children's literature, types of literature available for children from pre-school to junior high age, major authors and illustrators of children's books. Focuses on the literary heritage of children's books from classic to modern. Literary analysis from a variety of critical perspectives; research into current issues in children's books.

**NR**

## **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:* Placement by the current assessment process or successful completion of ENG 300, ENG 340, ESL 350, 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 201 COLLEGE WRITING SUPPORT AND SKILLS**

2 Units; 2 hours lecture

*Prerequisite:* Placement in ENG 200 by the current assessment process or successful completion of ENG 300, ENG 340, ESL 350, or comparable course with a grade of "C" or better

*Corequisite:* ENG 1A - 284010.00 – Enrollment in ENG 201 at Saddleback College Requires concurrent enrollment in ENG 1A (284010.00)

Students placed into ENG 200 may instead choose to enroll in ENG 201, a supplemental writing course taught in conjunction with ENG 1A. ENG 201 provides concurrent instruction in the basic conventions of college essay writing to supplement ENG 1A. It is highly recommended that students also enroll in ENG 343, a non-credit reading lab, for additional academic reading support. Successful completion of ENG 201 and ENG 1A allows students to enroll in ENG 1B.

**NR**

## **ENG 267 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 300NC BEGINNING WRITING (NON-CREDIT)**

0 Unit; 3 hours lecture

*Corequisite:* ENG 301NC

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. Designed for adult students completing the AESL sequence and/or those wishing to brush up on skills before attempting a for-credit course on campus.

**R-E-1**

## **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 301NC BEGINNING WRITING LAB (NON-CREDIT VERSION)**

0 Unit; 1 hour learning center

*Corequisite:* ENG 300NC

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. Designed for adult students completing the AESL sequence and/or those wishing to brush up on skills before attempting a for-credit course on campus.

**R-E-1**

## **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-99**

**ENG 332A  
READING AND VOCABULARY SKILLS  
LABORATORY-ESL BASIC**

*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 in spelling, reading comprehension, vocabulary development, and writing. This is an open-entry/open-exit class. 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 340NC  
READING AND WRITING SKILLS FOR  
COLLEGE**

*0 Unit; 3 hours lecture*

*Corequisite: ENG 341NC*

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. Designed for adult students completing the AESL sequence and/or those wishing to brush up on skills before attempting a for-credit course on campus.

**R-E-1**

**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 341NC  
READING LABORATORY**

*0 Unit; 1.5 hours lab*

*Corequisite: ENG 340NC*

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. Designed for adult students completing the AESL sequence and/or those wishing to brush up on English reading and writing skills before attempting a for-credit course on campus.

**R-E-1**

**ENG 343  
ACADEMIC READING AND STUDY  
SKILL FOR CONTENT AREA LAB**

*0 Unit; 1.5 hours learning center*

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.

**R-E-99**

### **ENG 345**

#### **BUILDING BASIC READING SKILLS**

*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.

**NR**

### **ENG 345NC**

#### **BUILDING BASIC READING SKILLS**

*0 Unit; 3 hours lecture*

*Corequisite: ENG 346NC*

Recommended for adult 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. 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. Designed for adult students completing the AESL sequence and/or those desiring more study of English reading skills before attempting a for-credit course on campus. Students who need to significantly improve their reading skills can take this course before ENG 340.

**R-E-1**

### **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.

**NR**

### **ENG 346NC**

#### **BASIC READING SKILLS LAB**

*0 Unit; 1.5 hours lab*

*Corequisite: ENG 345NC*

Expands and enhances the reading instruction in ENG 345 through an individualized program designed to meet each student's needs. Designed for adult ESL students who are completing the AESL sequence or those who desire more study of reading skills before attempting a for-credit course. Students who need to significantly improve reading skills can take this ENG 345/346 before ENG 340/341.

**R-E-1**

### **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.

**NR**

## **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.

**NR**

### **ESL 320**

#### **BEGINNING MULTISKILLS I**

*0 Unit; 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.

**R-E-4**

### **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.

**R-E-4**

### **ESL 321**

#### **BEGINNING MULTISKILLS II**

*6 Units; 6 hours lecture*

*Recommended Preparation: ESL 320*

Designed to further the fundamentals of communication competence in daily spoken English. Although the focus remains on listening comprehension and speaking, reading and writing skills are expanded and additional grammatical structures and verb forms are introduced. Continues the familiarization with customs and culture. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

**NR**

### **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.

**NR**

### **ESL 322**

#### **BEGINNING CONVERSATION**

*0 Unit; 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.

**R-E-4**

### **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.

**NR**

### **ESL 323**

#### **BEGINNING PRONUNCIATION**

*0 Unit; 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.

**R-E-4**

**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.

**NR**

**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 MULTISKILLS 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 330  
INTERMEDIATE MULTISKILLS I**  
6 Units; 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.

**NR**

**ESL 331  
INTERMEDIATE MULTISKILLS II**  
0 Unit; 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 331  
INTERMEDIATE MULTISKILLS II**  
6 Units; 6 hours lecture

*Recommended Preparation: ESL 330*

A high-intermediate English course 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.

**NR**

**ESL 332  
INTERMEDIATE CONVERSATION**  
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 332  
INTERMEDIATE CONVERSATION**  
0 Unit; 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.

**R-E-4**

**ESL 333  
INTERMEDIATE PRONUNCIATION**  
3 Units; 3 hours lecture

*Recommended Preparation: ESL 323*

An intermediate-level pronunciation course designed for non-native speakers which enables students to recognize, distinguish, and produce the sounds and intonation patterns of American English. Students continue to develop confidence in speaking and comprehension through extensive practice, imitation, sound discrimination, dialogue,

response, and reading. This course may be offered for zero units on an open entry/open exit basis. The unit version of this course is not open entry/open exit and may not be repeated.

**NR**

**ESL 333  
INTERMEDIATE PRONUNCIATION**  
0 Unit; 3 hours lecture

*Recommended Preparation: ESL 323*

An intermediate-level pronunciation course designed for on-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.

**R-E-4**

**ESL 335  
INTERMEDIATE WRITING I**  
3 Units; 3 hours lecture

*Prerequisite: Placement by the current assessment process or successful completion of ESL 321 or 325 with a grade of "C" or better.*

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 WRITING I**  
0 Unit; 3 hours lecture

*Prerequisite: Placement by the current assessment process or successful completion of ESL 321 or 325 with a grade of "C" or better.*

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.

**R-E-4**



**ESL 336**  
**INTERMEDIATE WRITING II**

3 Units; 3 hours lecture

*Prerequisite:* Placement by the current assessment process or successful completion of ESL 330 or 335 with a grade of "C" or better.

*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:* Placement by the current assessment process or successful completion of ESL 330 or 335 with a grade of "C" or better.

*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 MULTISKILLS**

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 MULTISKILLS**

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 342**  
**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 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 343**  
**ADVANCED PRONUNCIATION**

0 Unit; 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.

**R-E-4**

**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:* Placement by the current assessment process or successful completion of ESL 331 or 336 with a grade of "C" or better.

*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 345**  
**ADVANCED WRITING I**

0 Unit; 3 hours lecture

*Prerequisite:* Placement by the current assessment process or successful completion of ESL 331 or 336 with a grade of "C" or better.

*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.

**R-E-4**

### **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.

**NR**

### **ESL 346**

#### **ADVANCED WRITING FOR WORK**

0 Unit; 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

*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.

**NR**

### **ESL 347**

#### **ADVANCED GRAMMAR REVIEW**

0 Unit; 3 hours lecture

*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: Placement by the current assessment process or successful completion of ESL 340 or 345 with a grade of "C" or better.*

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**

0 Unit; 6 hours lecture

*Prerequisite: Placement by the current assessment process or successful completion of ESL 340 or 345 with a grade of "C" or better.*

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 354**

#### **VOCABULARY SKILLS FOR COLLEGE**

0 Unit; 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.

**R-E-4**

### **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.

**NR**

### **ESL 355**

#### **ESL READING FOR COLLEGE - AMERICAN LITERATURE**

0 Unit; 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 356**  
**ACADEMIC SUCCESS STRATEGIES**  
**FOR ESL STUDENTS**

0 Unit; 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

*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.

**NR**

**ESL 357**  
**GRAMMAR REVIEW FOR COLLEGE**

0 Unit; 3 hours lecture

*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.

**R-E-99**

**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.

**NR**

**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.

**R-E-4**

**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.

**NR**

**ESL 359**  
**AMERICAN LANGUAGE AND CULTURE**  
**THROUGH FILM**

0 Unit; 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.

**R-E-4**

**ESL 801**  
**INTERMEDIATE WRITING II LAB**

0.5 Unit; 1.5 hours learning center

*Corequisite: ESL 336*

Enhances and provides practice in skills learned in ESL 336. Focus is on the development of spelling, vocabulary, grammar, and reading skills leading to improved writing. The unit version of this course is not repeatable.

**NR**

**ESL 801**  
**INTERMEDIATE WRITING II LAB**

0 Unit; 1.5 hours learning center

*Corequisite: ESL 336*

Enhances and provides practice in skills learned in ESL 336. Focus is on the development of spelling, vocabulary, grammar, and reading skills leading to improved writing. This course is 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 802**  
**ADVANCED WRITING I LAB**

0 Unit; 1.5 hours learning center

*Corequisite: ESL 345*

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. This course is 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 802****ADVANCED WRITING I LAB**

0.5 Unit; 1.5 hours learning center

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.

**NR**

**ESL 903****ESL LANGUAGE LAB**

0 Unit; 1 hour learning center

Provides additional practice in a computer lab, enhancing language learning in reading, writing, grammar, speaking, listening, vocabulary and pronunciation for students who want additional support in their varied ESL courses. This is an open-entry/open-exit class.

**R-E-99**

## **Entertainment and Theatre Technology**

**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 FUNDAMENTALS**

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 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

Prerequisite: ETT 40

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**

## **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 quantity and quality, 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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

**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.

**NR**

**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  
MULTICULTURAL 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*

Fundamentals of sewing for the fashion design industry. Introduction to industrial equipment, home and industry patterns, fabric selection, layout and cut and sew techniques.

**NR**

**FASH 101  
INTRODUCTION TO FASHION CAREERS**

*3 Units; 3 hours lecture*

*Transfers: CSU*

Explores the fashion industry including the development of fashion and consumer demands, fashion producers, fashion retailers,

international fashion centers, marketing concepts, promotion, publishing, and advertising areas. Emphasis placed on current industry and careers.

**NR**

**FASH 110  
CONTEMPORARY CLOTHING  
CONSTRUCTION**

*3 Units; 2 hours lecture; 3 hours lab*

*Transfers: CSU*

*Recommended Preparation: FASH 100 or basic sewing skills*

Clothing construction methods appropriate for beginners or students wishing to refine their skills. Emphasis is placed on new sewing and fitting techniques for contemporary fabrics and fashion designs, individualizing patterns, and coordinating fabric choices to create the desired fashion image.

**NR**

**FASH 111  
SEWING FOR FASHION DESIGN II**

*3 Units; 2.5 hours lecture; 1.5 hours lab*

*Transfers: CSU*

*Recommended Preparation: FASH 100 or equivalent experience is suggested to help students be successful in this course.*

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 or equivalent experience is suggested to assist the student to be successful in this class.*

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 or equivalent experience is suggested to aid student in successful completion of this course.*

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  
TAILORING**

3 Units; 2.5 hours lecture; 1.5 hours lab  
Transfers: CSU

*Recommended Preparation: FASH 100 or basic sewing skills are suggested to assist student to complete this course successfully.*

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 techniques 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 are suggested to assist student to complete this course successfully.*

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 will assist the student to complete this class successfully.*

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 or equivalent experience is suggested to assist with student success in this class.*

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*

Students will learn to use the computer for costing, pricing, inventory control as well as vendor analysis. All current concepts in wholesale and retail merchandise planning are presented. The emphasis is on practical knowledge and the use of computers in today's apparel business. The class will cover the principles and procedures involved in the business applications of the fashion industry using Apparel Information Management System (AIMS) software for wholesale and retail buying decisions. 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 or equivalent sewing experience will assist the student to be successful in this class.*

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 or equivalent sewing experience will assist the student to be successful in this course.*

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 manufacturers 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 or equivalent experience will assist the student to be successful in this course.*

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 211  
ADVANCED DRESSMAKING AND  
CUSTOM SEWING**

*3 Units; 2.5 hours lecture; 1.5 hours lab*

*Recommended Preparation: FASH 111 and 130 or equivalent experience is suggested to aid in student success in this course.*

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 or equivalent experience is suggested to help with student success in this course.*

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, and 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 223  
MILLINERY DESIGN***3 Units; 2.5 hours lecture; 1.5 hours lab*

Learn the historic art of millinery. Design and construct hats as an accessory line, to 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 traditional procedures, terminology, equipment, and the various new dyes, pigments and technique trends in the current market. Various topics will be covered including shibori, high and low water immersion, ice dyeing, batik, fabric painting, tie-dyeing, dip dyeing and direct application processes. 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 TREND 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, couture and fashion blogging.

**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.

**NR****FASH 254  
FASHION IN SOUTHERN CALIFORNIA***1 Unit; 0.5 hours lecture; 1.5 hours lab*

Introduction to the fashion industry in Southern California. Students will visit California Mart and a selection of industry professionals and environments such as designers, buyers, manufacturers, and production facilities.

**NR****FASH 260  
THE DIGITAL FASHION IMAGE***2 Units; 1.5 hours lecture; 1.5 hours lab**Recommended Preparation: FASH 154*

Create digital fashion images using Adobe Photoshop and Illustrator. Technical instruction on sketching and image production from pencil to pen tool. Students will create and merchandise a clothing line and be introduced to the computer generated portfolio.

**NR**

## Fine Arts

### FA 27 INTRODUCTION TO FINE ARTS

3 Units; 3 hours lecture

Transfers: CSU, UC

An introductory course to the discipline of fine arts, including art, theatre, and music. Explores various topics that unite all fine arts, including terminology, aesthetics, themes, objective and subjective analysis, and techniques of the critique.

**NR**

## 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.

**NR**

### 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.

**NR**

### 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.

**NR**

### FN 120 SUSTAINABLE 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.

**NR**

### 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.

**NR**

### 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.

**NR**

### 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.

**NR**

### FN 152 SPECIAL EVENTS AND CATERING MANAGEMENT

3 Units; 3 hours lecture

Transfers: CSU

Covers all aspects of the event planning and catering business including operations, menu planning and design, pricing, equipment, staff training, sustainable and green catering practices, digital menu and proposal design, catering industry software, and the expansion of the event market. State-of-the-art marketing strategies, such as social networking, web promotion, and on-demand proposal development, are also discussed.

**NR**

### 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.

**NR**

### 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.

**NR**

### 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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **FN 169 LIFECYCLE NUTRITION**

3 Units; 3 hours lecture

Transfers: CSU

Prerequisite: FN 50

An in-depth analysis of the relationship of nutrition to growth and development from prenatal stages through senescence. Covers the function of nutrients in basic life processes and health issues related to insufficient or excessive amounts of nutrients. Dietary guidelines and methods of analysis of a healthy diet throughout the lifespan will be taught, with a focus on social, cultural, economic and environmental conditions that influence nutrition.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **FN 210 SERVSAFE IN FOOD PRODUCTION**

1 Unit; 1 hour lecture

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.

**NR**

### **FN 210NC SERVSAFE IN FOOD PRODUCTION NC**

0 Unit; 1 hour lecture

Basic information on food safety risks, standards and practices in restaurant operations. Students may take the national ServSafe exam upon the completion of this course. This non-credit version is intended for students who have already taken the credit version and need to renew. It does not count toward the unit requirement for certificates or degrees.

**R-99**

### **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 Provencal 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 item-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*

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 ingredients, quick breads, yeast dough (both lean and enriched), cookies, cupcakes, pastry fillings, tarts, pies and pie fillings. Career outlets and nutritional considerations also covered.

**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*

Advanced baking skills and methods. Topics include pastries, cakes, crèmes, custards, specialty desserts, and chocolate tempering, while emphasizing presentation techniques.

**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 cold foods and 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 or 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**

## **French**

### **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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours 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 1 or 1H, but not both. Letter grade only. C-ID: GEOG 110

**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. Credit may be earned for 2 or 2H, but not both.

**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

Integrated study of the principles of geology and the use of geologic clues to determine earth history. Emphasis will be placed on the composition of earth's crust and interior, plate tectonics, volcanism, earthquakes, mountain building, surface processes and natural resources such as minerals, fossil fuels, and water. Includes laboratory exercises in identifying common minerals and rocks, reading and interpreting aerial photos, topographic, and geologic maps. Field trips will supplement laboratory work.

**NR**

**GEOL 2  
HISTORICAL 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, introducing students to Earth's atmosphere, weather processes, global climate patterns, and drivers of climate change in the past and the present. Includes tools and techniques used by meteorologists to observe, interpret, and predict weather. Includes tools and techniques used by paleoclimatologists to determine climate conditions in the Earth's past. Analysis of how human activities affect weather and climate processes and the patterns of global climate impacts.

**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 Tetons 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 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 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 182  
GEOLOGY MORRO BAY & THE CENTRAL  
COAST**

*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 content will vary.

**NR**

**GEOL 185  
GEOLOGY OF YOSEMITE NATIONAL  
PARK**

*1 Unit; 0.5 hour lecture; 1.5 hours lab  
Transfers: CSU*

Application of geologic principles to study the rocks, tectonic settings, and active geologic processes of Yosemite National Park and the surrounding Sierra Nevada mountains. Trip will involve group camping and hiking. Previous geology course recommended but not required. Course may require ability to work and study under rigorous conditions.

**NR**

**GEOL 186  
GEOLOGY OF THE SOUTHERN  
COLORADO PLATEAU**

*2 Units; 1 hour lecture; 3 hours lab  
Transfers: CSU*

Application of geologic principles to study rock sequences, tectonic settings, and active geologic processes of the southern Colorado Plateau and the Sonoran Desert. Thematic emphasis will vary depending on parks visited. Trip will involve group camping and hiking. Previous geology course recommended but not required. Course may require ability to work and study under rigorous conditions.

**NR**

**GEOL 191  
GEOLOGY OF THE NORTHERN  
COLORADO PLATEAU**

*2 Units; 1 hour lecture; 3 hours lab  
Transfers: CSU*

Application of geologic principles to study rock sequences, tectonic settings, and active geologic processes of the northern Colorado Plateau, the basin and range, and the southern Rocky Mountains. Thematic emphasis will vary depending on parks visited. Trip will involve group camping and hiking. Previous geology course recommended but not required. Course may require ability to work and study under rigorous conditions.

**NR**

**German**

**GER 1  
ELEMENTARY 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  
ELEMENTARY 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**

*0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours learning center  
Corequisite: GER 4

Requires concurrent enrollment in German 4. Enhances and provides practice in skills learned in German 4 language course.

**NR**

## Global Studies

**GLST 1  
INTRODUCTION TO GLOBAL STUDIES**

3 Units; 3 hours lecture  
Transfers: CSU, UC

Recommended Preparation: ENG 1A

Introduction to the interdisciplinary field of Global Studies, including the history of globalization, and economic, political, social, cultural and ecological developments related to the process of globalization.

**NR**

**GLST 2  
GLOBAL ISSUES**

3 Units; 3 hours lecture  
Transfers: CSU, UC

Recommended Preparation: ENG 1A

Introduction to the origins, current status, and future trends of major transnational issues confronting the global community. Topics can include population trends, economic development and inequality, basic human needs (for food, water, health care), human rights, international conflict and security concerns, and environmental problems. The course also focuses on global governance, including the study of collective global responsibilities.

**NR**

## Graphic Communication

**GC 63  
INTRODUCTION TO SCREEN PRINTING**

3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU, UC

Principles, basic methods and techniques of preparing handcut and photographic stencils, printing techniques, simple color separation, and equipment and material

handling. Care, use, and safety precautions in operating and cleaning the silkscreen unit. Also listed as ART 63. Credit given in either area, not both.

**NR**

**GC 101  
INTRODUCTION TO GRAPHIC COMMUNICATION**

3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU

Designed to introduce the graphics major as well as the non-major to the broad field of graphic communications. Includes experience in design, press operations, and bindery, as well as hands-on experience in each of the major printing processes, including offset lithography, letterpress, and screen printing.

**NR**

**GC 106  
ADVANCED SCREEN PRINTING**

3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU

Prerequisite: GC 63

Recommended Preparation: GD 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

Hands-on experience for the advanced student who requires production experience or additional training in one or more of the following areas: design, letterpress, screenprinting, digital layout, press operation and bindery.

**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.

**NR**

**GC 215  
INTRODUCTION TO VEHICLE WRAP DESIGN AND APPLICATION**

1 Unit; 0.5 hours lecture; 2 hours lab

A hands-on introduction to the basic principles of designing, printing, and applying large format vinyl film for vehicle wrapping. Course will cover design fundamentals, materials and equipment, printing procedures, and essential skills required to apply vehicle wraps.

**NR**

## 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).

**NR**

**GD 2  
HISTORY OF GRAPHIC DESIGN**

3 Units; 3 hours lecture  
Transfers: CSU, UC

A critical and historical survey of the development of graphic design, from the beginning of writing to contemporary design and designers. The influence of political, social, technological, commercial, and popular culture will be discussed and analyzed, with an emphasis on the impact and interpretation of images, symbols, and typography used in informative and persuasive media in relation to the culture in which they were created. Students will analyze and evaluate a large cross section of graphic design and designers.

**NR**

**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.

**NR**

**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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **GD 148 DIGITAL GRAPHIC DESIGN**

*3 Units; 2 hours lecture; 3 hours lab*

*Transfers: CSU*

*Recommended Preparation: GD/ART 140 or 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.

**NR**

### **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.

**NR**

### **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.

**NR**

### **GD 151 DIGITAL LAYOUT AND DESIGN**

*3 Units; 2 hours lecture; 3 hours lab*

*Transfers: CSU*

A foundation course covering layout design for print and web publishing. Course covers typography, layout theory, pre-press production methods and project management. Emphasizes practical development techniques to produce digital visual images efficiently. Software instruction uses industry standard design software.

**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*

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**

### **HLTH 2 FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR**

*1.5 Units; 1.5 hours lecture*

*Transfers: CSU, UC*

Accident and injury prevention, CPR, AED and first aid for common injuries/illness. Successful completion qualifies a student for American Heart Association - Heartsaver - CPR, AED and First Aid certificate.

**NR**

### **HLTH 3 WOMEN'S HEALTH ISSUES**

*3 Units; 3 hours lecture*

*Transfers: CSU, UC*

An exploration of health issues that affect the quality of women's daily lives. The course will emphasize sexuality, intimate relationships, reproductive issues and Pre Menstrual Syndrome, preventative health care, fitness, nutrition, stress management, and emotional well-being, and aging. Additional topics covered in this course will include social, economic, environmental, behavioral, and political factors associated with women's health.

**NR**

## **Health Information Technology**

### **HIT 100 HEALTH INFORMATION SCIENCE**

*2 Units; 2 hours lecture*

*Transfers: CSU*

*Recommended Preparation: CIM 10 OR CIM 1, ENG 1A or ENG 1AH*

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 (formerly HIT 200).

**NR**

### **HIT 101 ALTERNATIVE HEALTHCARE DELIVERY SYSTEMS**

*2 Units; 2 hours lecture*

*Transfers: CSU*

*Recommended Preparation: CIM 10 or CIM 1*

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 (formerly HIT 203).

**NR**

### **HIT 109 ICD DIAGNOSTIC CODING**

*3 Units; 2 hours lecture; 3 hours lab*

*Transfers: CSU*

*Prerequisite: HSC 107 OR BIO 113*

*Recommended Preparation: HSC 108, CIM 10 or CIM 1*

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 (formerly HIT 221).

**NR**

### **HIT 110 ICD PROCEDURE CODING**

*2 Units; 2 hours lecture*

*Transfers: CSU*

*Prerequisite: HSC 107 OR BIO 113*

*Recommended Preparation: CIM 10 or CIM 1, & HSC 108*

Designed to provide training in the process of building International Classification of Diseases (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, device, and qualifier from the procedural code table. Students will use encoders and groupers to assign ICD procedure codes. Letter grade only (formerly HIT 220).

**NR**

### **HIT 111 HEALTHCARE INFORMATION TECHNOLOGIES (HCIT)**

*3 Units; 2 hours lecture; 3 hours lab*

*Transfers: CSU*

*Prerequisite: HIT 100*

*Recommended Preparation: CIM 10 or CIM 1*

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 (formerly HIT 207).

**NR**

### **HIT 112 REPORTING HEALTHCARE DATA**

2 Units; 2 hours lecture

Transfers: CSU

Recommended Preparation: CIM 10 or CIM 1, and 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 (formerly HIT 212).

**NR**

### **HIT 115 CPT AND AMBULATORY CARE CODING**

3 Units; 3 hours lecture

Transfers: CSU

Prerequisite: HSC 107 OR BIO 113

Recommended Preparation: CIM 10 or CIM 1, & HSC 108

Addresses the utilization of Current Procedural Terminology (CPT-4) and Healthcare Common Procedure Coding System (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 (formerly HIT 215).

**NR**

### **HIT 116 PERFORMANCE IMPROVEMENT IN HEALTHCARE**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: CIM 10 or CIM 1

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 (formerly HIT 204).

**NR**

### **HIT 119 MANAGEMENT OF RESOURCES IN HEALTHCARE**

3 Units; 2 hours lecture; 3 hours lab

Transfers: CSU

Recommended Preparation: CIM 10 or CIM 1 and ENG 1A or ENG 1AH

Management of human, financial, and physical resources in a Health Information 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 (formerly HIT 209).

**NR**

### **HIT 122 REIMBURSEMENT METHODOLOGIES**

3 Units; 2 hours lecture; 3 hours lab

Transfers: CSU

Prerequisite: HIT 109, HIT 110, & HIT 115

Recommended Preparation: CIM 10 OR CIM 1

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 (formerly HIT 202).

**NR**

### **HIT 130 DIRECTED PRACTICE**

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU

Prerequisite: HIT 111, HIT 115, and HSC 106

Limitation: (1) Physical examination and health clearance required (2)

Background clearance required (3)

Professional liability insurance required

Examines the structure, content, and utilization of health information as it relates to the Health Information Department of an affiliated health care organization. The focus is on the organization, flow of information, functions of the health information department, and other associated departments. Letter grade only (formerly HIT 219).

**NR**

### **HIT 222 ADVANCED CODING APPLICATIONS**

4 Units; 2 hours lecture; 6 hours lab

Prerequisite: HIT 221

Recommended Preparation: CIM 1, HIT 200, HSC 233, HSC 244, HIT 215, HIT 220 & HIT 202

Advanced medical coding for addressing more complex issues relating to International Classification of Diseases (ICD) and Healthcare Common Procedure Coding System (HCPCS)/Current Procedural Terminology (CPT) coding. Assignments focus on using different types of case studies mock records and applying learning at a higher coding skill level. Computerized encoders and groupers emphasized. This course will provide an opportunity for students in the Health Information Technology and Health Information Coding Specialist Programs to demonstrate competencies required for completion of each program.

**NR**

## **Health Science**

### **HSC 104 MEDICAL TERMINOLOGY**

3 Units; 3 hours lecture

Transfers: CSU

Application and orientation to medical terminology, basic structure of medical terms and their components—roots, prefixes, suffixes and combining forms. Emphasizes analysis, meaning, spelling and pronunciation to building a medical vocabulary applicable to the specialties of medicine, major diseases and terms used on physical examination, diagnosis and treatment. Letter grade only (formerly HSC 201).

**NR**

### **HSC 106 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION**

3 Units; 3 hours lecture

Transfers: CSU

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 and other government regulations, and E-health. Letter grade only (formerly MA 222 and HSC 233).

**NR**

### **HSC 107 HUMAN BODY FUNDAMENTALS**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: HSC 104

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 (formerly HSC 277).

**NR**

### **HSC 108 DISEASE PROCESSES FOR THE HEALTH SCIENCES**

3 Units; 3 hours lecture

Transfers: CSU

Prerequisite: HSC 104, HSC 107 or BIO 113

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 (formerly HSC 244).

**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 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**  
 0 Unit; 0.75 hour lecture

*Recommended Preparation: Previous experience or course work in health care field (EMT, Paramedic, Nursing, etc.)*

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.

**R\_99**

**HSC 223**  
**BASIC LIFE SUPPORT-CPR FOR**  
**HEALTHCARE PROVIDERS RENEWAL**  
 0 Unit; 0.25 hour lecture

*Limitation: Current American Heart Association Healthcare Provider 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.

**R\_99**

**HSC 226**  
**ADVANCED CARDIAC LIFE SUPPORT**  
 2 Units; 2 hours lecture  
*Recommended Preparation: Current BLS Healthcare Provider HSC 217*

Provides healthcare students with with critical assessment and management skills to treat adults with pre-arrest, cardiac arrest, and stroke. Provides information on team 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.

**NR**

**HSC 227**  
**PEDIATRIC ADVANCED LIFE SUPPORT**  
 2 Units; 2 hours lecture

*Limitation: Current AHA BLS Healthcare Provider course completion card*

*Recommended Preparation: Previous experience or course work in health care field (EMT, paramedic, nursing etc.).*

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.

**NR**

**HSC 228**  
**CALCULATIONS FOR MEDICATION**  
**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.

**NR**

**HSC 291**  
**MANAGEMENT OF AGGRESSIVE**  
**BEHAVIOR IN HEALTHCARE SETTINGS**  
 0.5 Unit; 0.5 hour lecture

Provides a general base for recognition and appropriate management of verbal and physical aggression in health care settings. Basics strategies for verbal de-escalation of the aggressive person and kinetic techniques to enhance client, personal and environmental safety will be emphasized.

**NR**

## Hebrew

**HEBR 1**  
**ELEMENTARY HEBREW**  
 5 Units; 5 hours lecture

*Transfers: CSU, UC*

*Corequisite: HEBR 901*

*Recommended Preparation:*

*College-level reading ability*

Designed to develop the fundamentals of communicative competence in colloquial Hebrew. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Hebrew.

**NR**

**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.

**NR**

**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.

**NR**

**HEBR 901**  
**HEBREW LANGUAGE LAB**

*0.5 Unit; 1.5 hours learning center*

*Corequisite: HEBR 1*

Requires concurrent enrollment in Hebrew 1. Enhances and provides practice in skills learned in Hebrew 1 course.

**NR**

**HEBR 902**  
**HEBREW LANGUAGE LAB**

*0.5 Unit; 1.5 hours learning center*

*Corequisite: HEBR 2*

Requires concurrent enrollment in Hebrew 2. Enhances and provides practice in skills learned in Hebrew 2 course.

**NR**



**HEBR 903**  
**HEBREW LANGUAGE LAB**

0.5 Unit; 1.5 hours learning center

Corequisite: HEBR 3

Requires concurrent enrollment in Hebrew 3. Enhances and provides practice in skills learned in Hebrew 3 course.

**NR**

## History

**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.

**NR**

**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.

**NR**

**HIST 11**  
**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.

**NR**

**HIST 12**  
**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.

**NR**

**HIST 15**  
**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.

**NR**

**HIST 16**  
**HISTORY OF THE UNITED STATES TO 1876**

3 Units; 3 hours lecture

Transfers: CSU, UC

History of the United States from its colonial origins through the period of the Reconstruction, focusing on cultural, economic, political, and social developments as influenced by geographical and cultural expansions and sectional conflicts.

**NR**

**HIST 17**  
**HISTORY OF THE UNITED STATES SINCE 1876**

3 Units; 3 hours lecture

Transfers: CSU, UC

A history of the United States from the Reconstruction period to the present, focusing on topics such as the Industrial Revolution, reform movements from the Progressives to the New Deal, the emergence of the U.S. as a world power, the Cold War, collective security in foreign affairs, and other foreign and domestic issues from 1990 to the present.

**NR**

**HIST 19**  
**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.

**NR**

**HIST 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 SOC 20. Credit given in either area, not both.

**NR**

**HIST 21**  
**WOMEN IN UNITED STATES HISTORY - A MULTICULTURAL 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**

**HIST 22**  
**SURVEY OF UNITED STATES HISTORY**

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**

**HIST 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**

**HIST 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**

**HIST 29**  
**FILM AND HISTORY 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**

**HIST 30  
HISTORY 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**

**HIST 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**

**HIST 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 Chicano/ Latino contributions to the development of American society.

**NR**

**HIST 41  
HISTORY 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**

**HIST 61  
HISTORY 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**

**HIST 62  
EUROPEAN HISTORY TO 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 63  
EUROPEAN HISTORY SINCE 1650**

3 Units; 3 hours lecture  
Transfers: CSU, UC

Survey of the historical developments of Europe from the Age of Absolutism to the present. Includes an overview of political, social, cultural, and scientific developments from the era of 17th Century nation building to the present.

**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 China, Japan, and Korea.

**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  
JAPANESE POPULAR CULTURE**

3 Units; 3 hours lecture  
Transfers: CSU, UC

An overview of Japanese popular culture from the Tokugawa era (1600-1868) to the present with an emphasis on contemporary (post-1945) popular culture. Focus is on changes in Japanese culture through movies, anime (animated cartoons), comic books, music, and other artifacts. Topics include the role of mass media, the

globalization of Japanese popular culture, and changing ideas of race, gender, and society.

**NR**

**HIST 74  
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 75  
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 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 PS 80. Credit given in either area, not both.

**NR**

**HIST 81  
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**

### Honors

#### HON 11H

##### HONORS CULTURE, SCIENCE, SOCIETY - RENAISSANCE

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A or ENG 1AH

Recommended Preparation: Eligibility for ENG 1B or ENG 1BH

Cross-disciplinary seminar. Explores the continuity of cultural traditions through a study of major works of history, literature, philosophy, social thought, fine arts, and the sciences. Compares and contrasts modes of inquiry characteristic of those disciplines. Organized around the theme of renaissance.

**NR**

#### HON 12H

##### HONORS CULTURE, SCIENCE, SOCIETY - THE POSTMODERN WORLD

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A or ENG 1AH

Recommended Preparation: Eligibility for ENG 1B or ENG 1BH

Cross-disciplinary seminar. Explores the continuity of cultural traditions through a study of major works of history, literature, philosophy, social thought, fine arts, and the sciences. Compares and contrasts modes of inquiry characteristic of those disciplines. Organized around the theme of the post-modern world.

**NR**

#### HON 13H

##### HONORS CULTURE, SCIENCE, SOCIETY - POWER, RESISTANCE, EMPIRE

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A or 1AH

Recommended Preparation: Eligibility for ENG 1B or 1BH

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**

#### HON 14H

##### HONORS CULTURE, SCIENCE, SOCIETY - TRANSFORMATION OF EMPIRE

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A or ENG 1AH

Recommended Preparation: Eligibility for ENG 1B or ENG 1BH

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**

#### HON 15H

##### HONORS CULTURE, SCIENCE, SOCIETY - FROM PHILOSOPHY TO SCIENCE

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A or ENG 1AH

Recommended Preparation: Eligibility for ENG 1B or ENG 1BH

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**

#### HON 16H

##### HONORS CULTURE, SCIENCE, SOCIETY - NATURAL AND SOCIAL SCIENCE

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: Eligibility for ENG 1A or ENG 1AH

Recommended Preparation: Eligibility for ENG 1B or ENG 1BH

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**

### Horticulture

#### HORT 7

##### INTRODUCTION TO LANDSCAPE DESIGN

3 Units; 2.5 hours lecture; 1.5 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-ORNAMENTAL

3 Units; 2.5 hours lecture; 1.5 hours lab

Transfers: CSU, UC

Landscape plants and identification. Includes trees, shrubs, plants used as ground covers, bedding plants, and vines. Growth habits and cultural requirements will be studied.

**NR**

#### HORT 11

##### PLANT MATERIALS-EDIBLES

3 Units; 2.5 hours lecture; 1.5 hours lab

Transfers: CSU, UC

Vegetables, fruits, and herbs that are regionally appropriate are identified and studied. Growth characteristics and cultural requirements are presented.

**NR**

#### HORT 20

##### INTRODUCTION TO HORTICULTURAL SCIENCE

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU, UC

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 and observations may be required to fulfill the objectives of this course.

**NR**

#### HORT 106

##### LANDSCAPE CAD-FUNDAMENTALS

3 Units; 2.5 hours lecture; 1.5 hours lab

Transfers: CSU

Use of computer-aided design and drafting (CAD) applications in landscape design. Covers applications in computer graphics and drafting, planting design, and landscape development according to industry standards.

**NR**

#### HORT 109

##### INTRODUCTION TO PLANTING DESIGN

3 Units; 2.5 hours lecture; 1.5 hours lab

Transfers: CSU

Elements and principles of planting design are explored. 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 110 INTRODUCTION TO URBAN FARMING**

*3 Units; 2.5 hours lecture; 1.5 hours lab  
Transfers: CSU*

An introduction to the principles and practices of Urban Farming. Emphasis is given to current trends for designing and growing urban landscapes, farms, and urban gardens. Considerations for various needs and exposures such as a roof top garden, or for a garden watered with grey water will be addressed. Discussions focus on ecological, functional, and aesthetic standards that are unique in an urban setting. Field trips may be required to fulfill the objectives of this course.

**NR**

### **HORT 111 INTRODUCTION TO PERMACULTURE**

*2 Units; 2 hours lecture  
Transfers: CSU*

Explores methods of permaculture design that are informed by the concept of working with nature. Different from sustainable landscape design which preserves habitat and ecology, Permaculture design is restorative to habitat and ecology. Students will explore ecological design, ecological engineering, environmental design, construction and integrated water resources management that develops sustainable architecture, regenerative and self-maintained habitat and agricultural systems modeled from natural ecosystems. 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**

*3 Units; 3 hours lecture  
Transfers: CSU*

A study of landscape design with an introduction to ancient times and an emphasis on the period after 1400 A.D. to the 19th Century, including 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; 2.5 hours lecture; 1.5 hours lab  
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**

*3 Units; 2.5 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**

*3 Units; 2.5 hours lecture; 1.5 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; 2.5 hours lecture; 1.5 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 BUSINESS ASPECTS IN HORTICULTURE AND LANDSCAPE**

*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 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 144 LICENSEURE FOR THE LANDSCAPE CONTRACTOR**

*2 Units; 2 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 145A LANDSCAPE- NATIVE GARDEN DESIGN**

*2 Units; 1.5 hours lecture; 1.5 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 145B LANDSCAPE DESIGN-EDIBLE GARDEN**

*2 Units; 1 hour lecture; 3 hours lab  
Transfers: CSU*

The goal of edible garden design is to incorporate edibles in a functioning, aesthetic garden that contributes to health of ecosystem. This course explores methods of incorporating edible plants into the overall landscape design. Students will create designs based on the textures, colors, shapes and growth characteristics of edible plants. Field trips may be required to fulfill the objectives of this course.

**NR**



### **HORT 145C LANDSCAPE DESIGN-THERAPEUTIC GARDEN**

2 Units; 1 hour lecture; 3 hours lab

Transfers: CSU

Explores methods of incorporating the principles of design into the creation of therapeutic gardens. Therapeutic gardens are of proven benefit for vocational, social, and recreational functions. Students will create universal access designs for various rehabilitative and beneficial purposes. Field trips may be required to fulfill the objectives of this course.

**NR**

### **HORT 146 LANDSCAPE DESIGN PORTFOLIO DEVELOPMENT**

1 Unit; 0.5 hours lecture; 1.5 hours lab

Transfers: CSU

Focuses on the development of a portfolio style tailored to the student's individual landscape design experience. Principles of effective graphic layout are discussed and utilized. Effective wording and creative layout are critiqued and modified. Students create a professional quality portfolio for a competitive advantage in the workplace.

**NR**

### **HORT 166 NATIVE PLANTS IN THE URBAN LANDSCAPE**

2 Units; 1 hour lecture; 3 hours lab

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 238 INTRODUCTION TO HORTICULTURE THERAPY**

3 Units; 2.5 hours lecture; 1.5 hours lab

An overview of the history and purpose of Horticulture Therapy. Explores the evolution of Horticulture Therapy from its start with medical illnesses, behavioral illnesses, and physical injury, to current day trends in social and vocational Horticultural Therapy. Emphasis is given to current trends for the implementation of therapeutic gardens. Ecological, functional, and aesthetic standards that are unique in a therapy garden will be discussed. Field trips may be required to fulfill the objectives of this course.

**NR**

### **HORT 239 FENG SHUI AND WELL BEING**

2 Units; 2 hours lecture

Explores methods of designing with the principles of Feng Shui, an ancient Chinese method of designing a harmonious and beneficial surrounding. The goal of Feng Shui as practiced today is to situate the human-built environment in a favorable position to maximize wellbeing. Students will explore designs based on the balance, placement, and understanding of shapes and elements.

**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, its 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 also 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

Recommended Preparation: Eligibility for ENG 1A

An overview of human development including the environmental influences that shape biopsychosocial development throughout the lifespan. Theories, research, and psychological perspectives of physical, cognitive, personality, and social development are examined including developmental problems and the role of human services in optimizing human development.

**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*

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*

*Transfers: CSU*

The assessment, intervention and treatment of Substance Use Disorders (SUD) are explored from an interdisciplinary perspective. Students learn to tailor helping strategies and treatment modalities to the client's Motivational Stage of Change, development, and recovery. Challenges students to examine their existing ideas about treatment and recovery from SUD. Provider approved by the California Board of Registered Nursing, Provider Number CEP60.

**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*

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 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

Recommended Preparation: 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

Transfers: CSU

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 220 BENEFITS AND ENTITLEMENT**

3 Units; 3 hours lecture

Comprehensive approach to methods of obtaining and maintaining federal, state and regional public income and healthcare coverage for the disabled, elderly and low to moderate income individuals and families. Benefits and Entitlement programs include California State Disability Insurance, Supplemental Security Income (SSI), Social Security Disability Insurance (SSDI), and Medicare/Medi-Cal Insurance programs. This course covers work incentives and employment supportive services with an emphasis on asset building and financial literacy for low to moderate income individuals and families. 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**

## **Humanities**

### **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 2 ORIGINS OF WESTERN CULTURE IN LITERATURE**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: ENG 200

Investigates the beginnings of Western culture from the time of Homer (c. 9th century B.C.) through the Roman period. The genesis of the Western conceptions of human nature, political theory, ethical notions, religion and art will be elaborated. The literary forms of Classical antiquity will

be surveyed, including the Homeric epic, the Greek tragedy, and the comedy. The themes of the Classical authors will form many of the themes of the course, such as man and nature, man's rights within society, reason and feeling, scientific knowledge and mystical insight, and the nature and basis of moral values.

**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 characteristically Medieval and Renaissance ideas and feelings about a variety of important human experiences as represented across a broad spectrum of the fine arts, philosophy and history. Among the themes to be studied are: the supernatural and the natural, the individual and the state, codes of personal conduct (chivalry and courtesy), the quest for new knowledge, the rise of the secular, and the emergence of a pluralistic universe. The transition from medieval to Renaissance consciousness will be emphasized.

**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 through satisfactory score on the English Placement Examination or completion of ENG 200 or ENG 390.*

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 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 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**

**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 inter-scholastic 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

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 2  
MEN'S BASKETBALL**

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

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 12  
WOMEN'S BASKETBALL**

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

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.

**R-E-3**

**IA 20  
WOMEN'S SPORTS OFF SEASON  
TRAINING**

1.5 Units; 5 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 20  
WOMEN'S SPORTS OFF SEASON  
TRAINING**

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 Intercollegiate Women's Sand Volleyball.

**R-E-3**

**IA 30  
MEN'S SPORTS OFF SEASON TRAINING**

0.5 Unit; 2.5 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 men's intercollegiate athletics with an emphasis on aerobic and anaerobic conditioning, sports specific strength development, skills training,

play strategies, and nutrition for optimal performance.

**R-E-3**

**IA 30  
MEN'S SPORTS OFF SEASON TRAINING**

1.5 Units; 5 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 men'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 130).

**R-E-3**

**IA 30  
MEN'S SPORTS OFF SEASON TRAINING**

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 men'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 130).

**R-E-3**

## Interior Design

**ID 110  
FUNDAMENTALS OF INTERIOR  
DESIGN**

3 Units; 3 hours lecture

Transfers: CSU

Study the design elements and principles related to interior environments. Analysis and critique of floor plans; furniture arrangement; color theory; and coordination of color, texture, and pattern for human environments. Analysis of special environmental considerations for sustainability, green design, and energy conservation in interiors. Overview of the aesthetic and functional assessment of interior furniture, floor, wall, window, illumination, and accessory treatments.

**NR**

**ID 111  
INTERIOR DESIGN STUDIO I**

3 Units; 2 hours lecture; 3 hours lab

Transfers: CSU

Recommended Preparation: Completion or concurrent enrollment in ID 110

Designed to apply concepts and theories presented in the lecture course, ID 110, Fundamentals of Interior Design. 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

Survey of the interior design profession, industry, related occupations, and worksites. Emphasizes personal, educational, and professional qualifications required for entry into the interior design profession.

**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.

**NR**

**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

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

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

**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 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

0.5 Unit; 1.5 hours 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

0.5 Unit; 1.5 hours 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

0.5 Unit; 1.5 hours 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

0.5 Unit; 1.5 hours 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 of 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 of high school Japanese

Corequisite: JA 903

Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Japanese cultures.

**NR**

### JA 4 INTERMEDIATE JAPANESE

5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: JA 3 or four years of high school Japanese

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**

### JA 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**

### JA 901 JAPANESE LANGUAGE LAB

0.5 Unit; 1.5 hours learning center

Corequisite: JA 1

Requires concurrent enrollment in Japanese 1. Enhances and provides practice in skills learned in Japanese 1 language course.

**NR**

### JA 902 JAPANESE LANGUAGE LAB

0.5 Unit; 1.5 hours learning center

Corequisite: JA 2

Requires concurrent enrollment in Japanese 2. Enhances and provides practice in skills learned in

**NR**



**JA 903****JAPANESE LANGUAGE LAB**

0.5 Unit; 1.5 hours learning center

Corequisite: JA 3

Requires concurrent enrollment in Japanese 3. Enhances and provides practice in skills learned in Japanese 3 language course.

**NR****JA 904****JAPANESE LANGUAGE LAB**

0.5 Unit; 1.5 hours learning center

Corequisite: JA 4

Enhances and provides practice in skills learned in Japanese 4 language course.

**NR****Journalism****JRN 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 CTVR 1. Credit given in either area, not both.

**NR****JRN 2****NEWS WRITING**

3 Units; 3 hours lecture

Transfers: CSU, UC

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****JRN 105****FEATURE WRITING**

3 Units; 3 hours lecture

Transfers: CSU

An in-depth study of commercial magazines and company publications including purposes, formats, requirements, feature requirements, market studies, and manuscript submission policies.

**NR****JRN 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 CTVR 106. Credit given in either area, not both.

**NR****JRN 107****NEWS MEDIA PRODUCTION AND INVESTIGATIVE REPORTING**

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU

Recommended Preparation: ENG 1A or JRN 2

Those enrolled in this course participate in the student newspaper and website, the Lariat, as staff members. The course 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****JRN 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 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

Those enrolled in this course participate in the student newspaper and website, the Lariat, as staff members. The course provides practical instruction in news media production, content management systems, data collection for storytelling and creating visual elements through data for the student campus productions for print, online, mobile and emerging platforms.

**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

Those enrolled in this course participate in the student newspaper and website, the Lariat, as staff members. The course provides practical instruction in interviewing, reporting and editing for print and online publications as required to produce the campus news publications, including print and digital publications as well as emerging platforms. Aspects of interviewing, computer assisted reporting, copy editing, headline writing, photo editing and Associated Press (AP) Style 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

Those enrolled in this course participate in the student newspaper and website, the Lariat, as staff members. The course 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 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****KNES 1****CARDIOVASCULAR CONDITIONING**

1 Unit; 0.5 hours lecture; 1.5 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, recumbant bikes, elliptical. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 50, and DANC 77.

**NR**

**KNES 1  
CARDIOVASCULAR CONDITIONING**

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, recumbant bikes, elliptical. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 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  
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, 50, and DANC 77.

**NR**

**KNES 3  
CIRCUIT WEIGHT TRAINING**

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, 50, and DANC 77.

**NR**

**KNES 4  
BEGINNING WEIGHT LIFTING**

1 Unit; 0.5 hours lecture; 1.5 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 4  
BEGINNING WEIGHT LIFTING**

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  
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 5  
INTERMEDIATE WEIGHT LIFTING**

1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC

*Recommended Preparation: KNES 4*

Principles and techniques for students interested in weight lifting for increased muscle strength in sports activities or competition. 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  
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 6  
ADVANCED WEIGHT LIFTING**

1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC

*Recommended Preparation: KNES 5*

Advanced weight lifting and conditioning for sports activity and competition. Power lifting on free weights, resistance machines, and use of additional equipment. Focus is on maximizing muscle development through advanced training principles. Students are limited to a combined total of four enrollments in KNES 4, 5, and 6.

**NR**

**KNES 7  
STEP TRAINING**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

Aerobic development through coordinated stepping movements. Suitable for beginning through conditioned athletes. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 50, and DANC 77.

**NR**

**KNES 8  
BEGINNING CARDIO KICKBOXING**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

Introduces the student to basic knowledge and skills in cardio kickboxing. Provides students with a safe and effective cardiovascular workout that utilizes basic skills from sports, kickboxing, and self-defense, combined with constant aerobic movement. Emphasis is placed on beginning level combinations. Students are limited to a combined total of four enrollments in KNES 8 and 16.

**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 8 and 16.

**NR**

**KNES 9  
STRETCHING, FLEXIBILITY, AND  
CONDITIONING**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

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 8*

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 8 and 16.

**NR**

### **KNES 17 BEGINNING BOWLING**

*1 Unit; 0.5 hours lecture; 1.5 hours lab*  
*Transfers: CSU, UC*

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 Unit; 0.5 hours lecture; 1.5 hours lab*  
*Transfers: CSU, UC*

*Recommended Preparation: KNES 17*

Intermediate techniques, skills, and strategies of bowling. Participate in bowling 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*  
*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 20 BEGINNING GOLF I**

*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 II**

*1 Unit; 0.5 hours lecture; 1.5 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 21 BEGINNING GOLF II**

*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*  
*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 22 INTERMEDIATE GOLF**

*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*  
*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 23 ADVANCED GOLF**

*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  
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 24  
BEGINNING TENNIS I**

*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  
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 25  
BEGINNING TENNIS II**

*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  
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 26  
INTERMEDIATE TENNIS**

*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 27  
ADVANCED TENNIS**

*1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC*

*Recommended Preparation: KNES 26*  
Advanced tennis techniques, playing strategy, match play, singles, doubles and mixed doubles. Students 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 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 28  
BEGINNING YOGA**

*1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC*

Gentle yoga exercises focus on correct postural alignment, balance, joint flexibility, and muscle toning. 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 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  
Limitation: Must pass swim test*

Historical perspectives of surfing, ocean safety, surfing etiquette, wave selection, proper paddling, and appropriate take-off procedures. Students will be required to provide own equipment and display an understanding of appropriate surfing equipment. 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  
Limitation: Must pass swim test  
Recommended Preparation: KNES 33*

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, side-slip, 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. 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 (formerly KNES 139). Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28.

**NR**

### **KNES 39 INTERMEDIATE YOGA**

*1.5 Units; 1 hour lecture; 2 hours lab*

*Transfers: CSU, UC*

*Recommended Preparation: KNES 28*

Intermediate level course exploring 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*

*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 40 ADVANCED YOGA**

*1.5 Units; 1 hour lecture; 2 hours lab*

*Transfers: CSU, UC*

*Recommended Preparation: KNES 28*

Blending the principles and practices of various 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 41 SWIMMING FOR NONSWIMMERS**

*1.5 Units; 1 hour lecture; 2 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 42 INTERMEDIATE SWIMMING**

*1 Unit; 0.5 hours lecture; 1.5 hours lab*

*Transfers: CSU, UC*

*Recommended Preparation: KNES 41*

Intermediate stroke techniques between beginner and advanced swimmer. Instruction in crawl stroke, breaststroke, side stroke, back crawl and elementary backstroke, treading, 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**

*1.5 Units; 1 hour lecture; 2 hours lab*

*Transfers: CSU, UC*

*Recommended Preparation: KNES 41*

Intermediate stroke techniques for beginner through advanced swimmers. Instruction in crawl stroke, breaststroke, side stroke, back crawl and elementary backstroke, treading, 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 43  
ADVANCED SWIMMING AND DIVING**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation: KNES 42

Techniques for refinement of advanced swimming and diving skills. Safety for life-saving and elementary forms of rescue will be stressed. 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**

**KNES 44  
AQUATIC CONDITIONING**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation: Basic swimming ability

Aquatic workouts to improve physical fitness through swimming. 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**

**KNES 47  
LIFEGUARD TRAINING**

2 Units; 2 hours lecture

Transfers: CSU, UC

Limitation: Swim 300 yards continuously.

Tread water for 2 min. using only the legs. Complete a timed event within 1 minute, 40 seconds: Starting in the water, swim 20 yards, surface dive to a depth of 7-10 feet to retrieve a 10-pound object; return to the surface and swim 20 yards on the back to return to the starting point; exit the water without using a ladder or steps.

Recommended Preparation: KNES 43

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**

**KNES 49  
AQUA AEROBICS**

1 Unit; 0.5 hours lecture; 1.5 hours lab

Transfers: CSU, UC

Instruction and practice in water aerobics exercise. Water resistance exercises for toning, trimming and firming skeletal muscles. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49.

**NR**

**KNES 49  
AQUA AEROBICS**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Instruction and practice in water aerobics exercise. Water resistance exercises for toning, trimming and firming skeletal muscles. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49.

**NR**

**KNES 50  
AEROBIC DANCE**

1 Unit; 0.5 hours lecture; 1.5 hours lab

Transfers: CSU, UC

Fitness program which combines vigorous aerobic dance combinations performed to a variety of music. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 50, and DANC 77.

**NR**

**KNES 50  
AEROBIC DANCE**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

A fitness program which combines vigorous aerobic dance combinations performed to a variety of music. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 50, and DANC 77.

**NR**

**KNES 51  
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**

**KNES 52  
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**

**KNES 53  
INTRODUCTION TO ATHLETIC  
TRAINING**

3 Units; 3 hours lecture

Transfers: CSU, UC

Introduction to the field of athletic training. Emphasis on prevention and care of injuries, evaluation of injuries, first aid and emergency care, and rehabilitation and reconditioning.

**NR**

**KNES 54  
PRINCIPLES AND FUNDAMENTALS  
OF COACHING**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: KNES 53

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**

**KNES 56  
PRACTICUM IN ATHLETIC TRAINING -  
FALL SPORTS**

2 Units; 1 hour lecture; 3 hours lab

Transfers: CSU, UC

Recommended Preparation: KNES 53

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 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

Instruction, practice, and performing at college athletic events. Song and cheer technique development for routines in competition and at games. Choreography and formation development. Includes performing at special events. Students are limited to a combined total of four enrollments in KNES 57 and 58.

**NR**

## **KNES 58 PEP SQUAD II**

1.5 Units; 4.5 hours lab

Transfers: CSU, UC

Limitation: Competitive audition required

Recommended Preparation: KNES 57

Advanced instruction, practice, and performing at college athletic events. Song and cheer technique development for routines in camp competition and at games. Choreography and formation development. Includes performing at special events (formerly KNES 158). Students are limited to a combined total of four enrollments in KNES 57 and 58.

**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 (formerly KNES 159). Students are limited to a combined total of four enrollments in KNES 56 and 59.

**NR**

## **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. Students are limited to a combined total of four enrollments in KNES 63, 88, and 89.

**NR**

## **KNES 65 INTRODUCTION TO MAT PILATES**

1 Unit; 0.5 hours lecture; 1.5 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 65 INTRODUCTION TO MAT PILATES**

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

Transfers: CSU, UC

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 66 CORE TRAINING**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Training to improve core strength, coordination, balance, quickness, and agility. Use of medicine balls, resistance bands, and fitness ball 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 70 BASKETBALL**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Basic basketball fundamentals and practice. 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 71  
ADVANCED BASKETBALL**

1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 70

Advanced basketball skills 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

Basic 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 72  
BEGINNING SOCCER**

1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC

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 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 72

Advanced fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, receiving, 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 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 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 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 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC  
Recommended Preparation: KNES 77

Advanced skills course for playing competitive volleyball. Volleyball 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 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 79  
ADVANCED BASEBALL**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

Recommended Preparation: Participation on interscholastic team

Advanced baseball skills, techniques, and training for those who have competed on an interscholastic team or equivalent. Advanced strategies of offense and defense. Recommended for kinesiology majors and those interested in intercollegiate competition. Students are limited to a combined total of four enrollments in KNES 79 and 82.

**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. 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 emphasis 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 overnite 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 88  
INTERMEDIATE ROCK CLIMBING**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

*Recommended Preparation: KNES 63*

Intermediate skills of rock climbing with emphasis on the technical principles of bouldering, lead climbing, and top ropes (formerly KNES 100). Students are limited to a combined total of four enrollments in KNES 63, 88, and 89.

**NR**

**KNES 89  
ADVANCED ROCK CLIMBING**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

*Recommended Preparation: KNES 88*

Rock climbing with emphasis on the advanced principles and techniques for climbing any grade and different routes (formerly KNES 101). Students are limited to a combined total of four enrollments in KNES 63, 88, and 89.

**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, 97, and 199.

**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. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, 97, and 199.

**NR**

**KNES 93  
BEGINNING KARATE**

1 Unit; 0.5 hours lecture; 1.5 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, 97, and 199.

**NR**

**KNES 94  
BEGINNING AIKIDO**

1 Unit; 0.5 hours lecture; 1.5 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 AIKIDO**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

*Recommended Preparation: KNES 94*

Intermediate skills for an individual to avoid and protect oneself from physical attack. Techniques from Aikido involves combative skills and martial arts emphasis. Philosophical, psychological, and physical study and practice of Aikido. Students are limited to a combined total of four enrollments in KNES 94, 95, and 96.

**NR**

**KNES 96  
ADVANCED AIKIDO**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

*Recommended Preparation: KNES 94*

Advanced principles and refinement of movements of Aikido. Open hand defense against weapons, kneeling principles and advanced Ukemi techniques to prevent injury. Students are limited to a combined total of four enrollments in KNES 94, 95, and 96.

**NR**

**KNES 97  
INTERMEDIATE KARATE**

1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC

*Recommended Preparation: KNES 93*

Provides intermediate instruction in traditional Karate, including second-level form, technique, and philosophy. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, 97, and 199.

**NR**

**KNES 98  
INTRODUCTION TO QIGONG**

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 199 STREET MARTIAL ARTS**

1 Unit; 0.5 hours lecture; 1.5 hours lab

Transfers: CSU

Practical application of martial arts techniques used to protect oneself in realistic physical confrontations and situations. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, 97, and 199.

**NR**

### **KNES 204 TRAINING AND THEORY OF THE YOGIC ENERGY SYSTEM**

1 Unit; 1 hour lecture

Introduces students to the body's subtle energy system and further explores the 7 basic chakras (energy centers) within the body. This course will analyze ancient and modern techniques to awaken and balance this yogic energy system for life long health. Emphasis will be on integrating theories and techniques into the practice, and teaching, of yoga. Hours can be applied toward Yoga Alliance continuing education requirements for yoga instructors.

**NR**

### **KNES 402 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 (formerly KNES 202).

**NR**

### **KNES 403 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 (formerly KNES 203).

**NR**

## **Kinesiology – Adapted**

### **KNEA 1 ADAPTED STRENGTH TRAINING**

1 Unit; 0.5 hours lecture; 1.5 hours lab

Transfers: CSU, UC

Fitness class stressing strength, resistance training, and endurance. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability.

**NR**

### **KNEA 1 ADAPTED STRENGTH TRAINING**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Fitness class stressing strength, resistance training, and endurance. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability.

**NR**

### **KNEA 3 ADAPTED CARDIOVASCULAR CONDITIONING**

1 Unit; 0.5 hours lecture; 1.5 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 3 ADAPTED CARDIOVASCULAR CONDITIONING**

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**

1 Unit; 0.5 hours lecture; 1.5 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 4 ADAPTED STRETCHING AND CORE TRAINING**

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 5 ADAPTED SWIMMING**

0.5 Unit; 0.5 hours lecture; 0.5 hours lab

Transfers: CSU, UC

Consists of swimming and modified swim techniques to improve strength, flexibility and cardiovascular condition. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnoses, or any cognitive, behavioral, and/or physical disabilities. Adaptive equipment may include flotation devices such as AquaJoggers, pull buoys, and Velcro straps. Teaching methods are adapted to meet individualized needs.

**NR**

### **KNEA 5 ADAPTED SWIMMING**

1 Unit; 0.5 hours lecture; 1.5 hours lab

Transfers: CSU, UC

Consists of swimming and modified swim techniques to improve strength, flexibility and cardiovascular condition. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnosis, or any cognitive, behavioral, and/or physical disabilities. Adaptive equipment may include flotation devices such as AquaJoggers, pull buoys, and velcro straps. Teaching methods are adapted to meet individualized needs.

**NR**

### **KNEA 5 ADAPTED SWIMMING**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Consists of swimming and modified swim techniques to improve strength, flexibility and cardiovascular condition. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnosis, or any cognitive, behavioral, and/or physical disabilities. Adaptive equipment may include flotation devices such as AquaJoggers, pull buoys, and velcro straps. Teaching methods are adapted to meet individualized needs.

**NR**

### **KNEA 6 ADAPTED SPORTS**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Introduction to sports including basketball, soccer, floor hockey, softball, bocce ball, and dodgeball. Designed for individuals with any cognitive, behavioral, and/or physical

disabilities who need assistance and equipment adaptations in activities and sports. Teaching methods and rules of the game are adapted to meet individualized needs.

**NR**

**KNEA 7  
ADAPTED WATER EXERCISE AND  
AEROBICS**

*0.5 Unit; 0.5 hours lecture; 0.5 hours lab*

*Transfers: CSU, UC*

Consists of water exercise and aerobics to improve strength, flexibility and cardiovascular condition. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnosis, or any cognitive, behavioral, and/or physical disabilities. Adaptive equipment may include flotation devices for the trunk and extremities, ankle weights, aquatic dumbbells, and noodles. Teaching methods are adapted to meet individualized needs.

**NR**

**KNEA 7  
ADAPTED WATER EXERCISE AND  
AEROBICS**

*1 Unit; 0.5 hours lecture; 1.5 hours lab*

*Transfers: CSU, UC*

Consists of water exercise and aerobics to improve strength, flexibility and cardiovascular condition. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnosis, or any cognitive, behavioral, and/or physical disabilities. Adaptive equipment may include flotation devices for the trunk and extremities, ankle weights, aquatic dumbbells, and noodles. Teaching methods are adapted to meet individualized needs.

**NR**

**KNEA 7  
ADAPTED WATER EXERCISE AND  
AEROBICS**

*1.5 Units; 1 hour lecture; 2 hours lab*

*Transfers: CSU, UC*

Consists of water exercise and aerobics to improve strength, flexibility and cardiovascular condition. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnosis, or any cognitive, behavioral, and/or physical disabilities. Adaptive equipment may include flotation devices for the trunk and extremities, ankle weights, aquatic dumbbells, and noodles. Teaching methods are adapted to meet individualized needs.

**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.

**NR**

**KNEA 153  
EXERCISE WITH SPECIAL  
POPULATIONS**

*3 Units; 2 hours lecture; 3 hours lab*

*Transfers: CSU*

*Recommended Preparation: KNES 52 or Intro Anatomy and Physiology.*

Provides knowledge and practical skills for students seeking employment in settings that serve persons with chronic medical conditions and/or disabilities with therapy and wellness. Builds on concepts and skills learned in HS/KNEA 151 and 152. Prepares eligible students to sit for American College of Sports Medicine Fitness Inclusive Trainer.

**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**

**Korean**

**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 and customs and cultural achievements will be included.

**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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours 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**

0.5 Unit; 1.5 hours learning center

Corequisite: KOR 4

Requires concurrent enrollment in Korean 4. Enhances and provides practice in skills learned in Korean 4 language course.

**NR**

## Library

**LIB 2H  
HONORS ADVANCED INFORMATION  
COMPETENCY, ONLINE SEARCHING**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: LIB 100

Advanced online research skills with special attention to efficient use of library catalogs, periodical databases, collections of peer-reviewed journals, statistical databases, and primary sources. Emphasis on the construction of annotated bibliographies and literature reviews for honors research

projects requiring the use of primary sources, scholarly sources, and statistical databases. Credit may be earned in LIB 2 or 2H, but not both. Letter grade only.

**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**

## Manufacturing Technology

**MFG 200  
INTRODUCTION TO RAPID  
PROTOTYPING TECHNOLOGY**

3 Units; 2 hours lecture; 3 hours lab

Recommended Preparation: ARCH/DR

50 and MFG 204

A comprehensive study of rapid prototyping (RP) and Additive Manufacturing (AM). Primary topics will include prototype fundamentals, terminology, machine technology, advantages vs. disadvantages of various technologies, materials and finishing for industry. Features applied laboratory activities in additive manufacturing and post-production finishing or processes on several different rapid prototyping machines.

**NR**

**MFG 201  
ADVANCED CAD MODEL MAKING  
AND TOOLING**

2 Units; 1 hour lecture; 3 hours lab

Prerequisite: MFG 200

Recommended Preparation: ARCH/DR

50 and MFG 204

A comprehensive study of rapid prototyping (RP), additive manufacturing tooling, and secondary processes. Includes stereo lithography (SLA), fused deposition modeling (FDM), three dimensional printing (3DP), and multi-jet modeling (MJM) machine operations. Students apply advanced materials secondary processes and finishing for RP models, resin casting, vacuum forming, silicone mold making and composites. Activities include finishing on several rapid prototyping machines and secondary processing equipment. Magics RP will be used for tool creation and repair of STL files.

**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 lattice 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

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.

**NR**

**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.

**NR**



**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.

**NR**

**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.

**NR**

## 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.

**NR**

**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.

**NR**

**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.

**NR**

**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.

**NR**

## 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.

**NR**

**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.

**NR**

**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.

**NR**

**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 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 sailboat. Prepares students for more advanced seamanship courses, and provides experience for personal growth.

**NR**

## Mathematics

**MATH 2**  
**PRE-CALCULUS MATHEMATICS**

5 Units; 5 hours lecture

*Transfers: CSU, UC*

*Prerequisite: Placement by the current assessment process or successful completion of MATH 124 with a "C" or better.*

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: Placement by the current assessment process or successful completion of MATH 2 with a "C" or better.*

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. Credit may be earned in MATH 3A or 3AH, but not both.

**NR**

**MATH 3AH**  
**HONORS ANALYTIC GEOMETRY AND**  
**CALCULUS**

5 Units; 5 hours lecture

*Transfers: CSU, UC*

*Prerequisite: Satisfactory score on entrance exam administered by the Math Department and one of the following: Placement by the current assessment process or successful completion of Math 2 with a "C" or better.*

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: Successful completion of MATH 3A or MATH 3AH with a "C" or better.*

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: Placement by the current assessment process or successful completion of MATH 253 with a "C" or better.*

This is a college algebra course designed for the general education student. Topics include: polynomial, exponential, and logarithmic functions, polynomial equations, matrices, determinants, and systems of linear equations, sequences, series, mathematical induction, permutations, combinations, the binomial theorem, and conic sections.

**NR**

**MATH 8**  
**COLLEGE ALGEBRA FOR BRIEF**  
**CALCULUS**

5 Units; 5 hours lecture

*Transfers: CSU, UC*

*Prerequisite: Placement by current assessment process or successful completion of MATH 253 with a "C" or better.*

Polynomial, rational, exponential, and logarithmic functions. Matrices, determinants, and systems of linear equations and inequalities. Absolute value equations and inequalities. Polynomial equations and inequalities. Designed to prepare students for success in: A Brief Course in Calculus (MATH 11).

**NR**

**MATH 10**  
**INTRODUCTION TO STATISTICS**

3 Units; 3 hours lecture

*Transfers: CSU, UC*

*Prerequisite: Placement by the current assessment process or successful completion of MATH 253 with a "C" or better.*

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: Placement by the current assessment process or successful completion of MATH 8 with a "C" or better.

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 14** **MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS**

5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: Placement by the current assessment process or successful completion of MATH 253 with a "C" or better.

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 (formerly MATH 112).

**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 103** **MATHEMATICAL IDEAS**

3 Units; 3 hours lecture

Transfers: CSU

Prerequisite: Placement by the current assessment process or successful completion of MATH 353 with a "C" or better.

Learn problem solving skills and analytical thinking to investigate areas such as consumer concerns, probability, statistics, and mathematics in the work place.

**NR**

### **MATH 124** **TRIGONOMETRY**

3 Units; 3 hours lecture

Transfers: CSU

Prerequisite: Placement by the current assessment process or successful completion of MATH 253 with a "C" or better.

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: Placement by the current assessment process or successful completion of MATH 353 with a "C" or better.

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: Placement by the current assessment process or successful completion of MATH 353 with a "C" or better.

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: Placement by the current assessment process or successful completion of MATH 351 with a "C" or better.

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 200** **MEDICAL OFFICE CERTIFICATION PREPARATION AND REVIEW**

3 Units; 3 hours lecture

Recommended Preparation: Administrative or Comprehensive Medical Assistant Courses

Prepares students for the coding examination provided through the American Academy of Professional Coders (AAPC). Students will develop in-depth understanding of physician-based medical coding using critical thinking skills to: 1) abstract the pertinent information from document 2) select correct codes 3) and determine the correct sequencing of the codes using the following systems: International Classification of Disease (ICD), Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS). Letter grade only.

**NR**

### **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 211B** **PHYSICAL-EXAMINATION PROCEDURES**

3 Units; 2 hours lecture; 3 hours lab

Includes identification of equipment and performance of clinical medical office skills. Students perform collection and documentation of subjective and objective data



including physical measurements, equipment selection for general and specialty specific examinations. Includes introduction to diagnostic, radiology and physical therapy procedures, patient preparation and instruction. 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 213B  
MEDICAL ASEPSIS AND SURGICAL  
PROCEDURES**

*3 Units; 2 hours lecture; 3 hours lab*

*Recommended Preparation: HSC 104*

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 EX-  
PERIENCE-ADMINISTRATIVE**

*3 Units; 9 hours lab*

*Prerequisite: Completion of all required didactic courses for the Administrative Medical Assistant Certificate.*

*Limitation: Enrollment requires: 1) completion of all administrative medical assistant program requirements 2) health screening physical examination and immunizations 3) Basic Cardiac Life Support Certificate (BLS) 4) Proof of Medical Liability Insurance*

Provides supervised directed practice in a physician's office or medical clinic, Culminating, supervised, directed practice that is completed in a physician's office or medical clinic that allows application of administrative medical assistant skills essential for entry level employment. Students must complete all requisite courses with a "C" grade or

higher. Requires an APC. Students purchase and complete the online practice and HESI exit exam. Meets California Certification Board for Medical Assistant Certification Examination requirements. Letter grade only.

**NR**

**MA 217B  
MEDICAL ASSISTING CLINICAL  
EXPERIENCE CLINICAL**

*3 Units; 9 hours lab*

*Prerequisite: Completion of all required didactic courses for the Clinical Medical Assistant Certificate.*

*Limitation: Enrollment requires: 1) completion of all clinical medical assistant program requirements 2) health screening physical examination and immunizations 3) Basic Cardiac Life Support Certificate (BLS) 4) Proof of Medical Liability Insurance Coverage*

Provides supervised directed practice in the back office of a medical office or clinic. Clinical experience emphasizes performance of skills, problem solving related to the workplace, patient preparation, assisting the physician during examinations and procedures. Completion meets California Certifying Board for Medical Assistant certification examination requirements (CCBMA). Letter grade only.

**NR**

**MA 217C  
MEDICAL-ASSISTING CLINICAL  
EXPERIENCE COMPREHENSIVE**

*3 Units; 9 hours lab*

*Prerequisite: Completion of all didactic courses in the comprehensive medical assistant program.*

*Limitation: Completion of all didactic courses in the comprehensive medical assistant program 2) Health screening physical examination and immunizations 3) Basic Cardiac Life Support Certificate (BLS) 4) Proof of Medical Liability Insurance*

Provides supervised directed practice in a physician's office or medical clinic, emphasizing basic medical front-office and clinical back-office skills with consideration for ethical and legal concepts. Students demonstrate professionalism and competency. Students purchase the online HESI practice exams and final exam. Meets California Certifying Board for Medical Assistants Certification Examination requirements. Clinical courses meet state medical assistant requirements for venipuncture and injections. Note, this is not a phlebotomist license. Letter grade only.

**NR**

**MA 218B  
ELECTROCARDIOGRAPHY FOR THE  
MEDICAL ASSISTANT**

*3 Units; 2 hours lecture; 3 hours lab*

Provides the medical assistant student with instruction on the cardiopulmonary system,

anatomy and physiology, basic electrophysiology, identification of normal and abnormal atrial and ventricular rhythms, pathophysiology, diagnostic testing including the ECG and spirometry testing. Emphasis on technical performance of skills. Letter grade only.

**NR**

**MA 224A  
BASICS OF MEDICAL INSURANCE,  
BILLING AND REIMBURSEMENT**

*3 Units; 3 hours lecture*

Introduces students to the basics of medical insurance and billing. Covers physician fees, insurance plans, methods of payment, credit and collections and banking procedures used in the medical office and ambulatory healthcare settings. Covers terminology related to banking, billing, collections, claims, insurance and reimbursement. Letter grade only (formerly INSR 224A and MA 212A).

**NR**

**MA 280  
HEALTHCARE ORGANIZATION  
PRACTICES**

*3 Units; 2 hours lecture; 3 hours lab*

Provides the student with the fundamental knowledge to work in a medical office as an entry level administrative assistant for a variety of medical or healthcare offices. Designed to articulate into one of three certificates: 1) Administrative Medical Assistant 2) HCIT Program and 3) Financial Practices for the Medical Office

**NR**

**MA 282  
FUNDAMENTALS OF MEDICAL  
PRACTICE CODING**

*3 Units; 3 hours lecture; 1 hour lab*

Provides instruction and practice on financial procedures, insurance, billing, collections and coding practices used in medical offices, outpatient, ambulatory and hospital settings. Introduces Current Procedural Terminology (CPT), Healthcare Common Procedure Coding System (HCPCS), and International Classification of Diseases (ICD) procedural principles. Covers relationship between coding, reimbursement, collections, insurance, administrative procedures and billing. Letter grade only.

**NR**

**Medical Laboratory  
Technology**

**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 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 230 CLINICAL CHEMISTRY**

5 Units; 5 hours lecture; 1 hour lab

*Prerequisite: Official admission to the MLT program.*

Includes general laboratory principles and specific basic instrumentation methodologies used in the clinical lab. Introduces pre-analytical variables, electrolytes and trace elements and their relationship to acid base balance, and enzyme kinetics. Studies relationships between the endocrine system analytes, including tumor markers, therapeutic drugs, and toxicology. Studies the clinical relevance of vitamin assays. Examines the correlation between test results and disease states for liver, kidney, and pancreatic functions assays. Introduces students to body fluid assays and correlation with disease states. Includes review of QA and QC.

**NR**

### **MLT 232 CLINICAL MICROBIOLOGY**

3 Units; 3 hours lecture

*Prerequisite: MLT 210 & Official Admission Into the MLT Program*

*Recommended Preparation: MLT 211*

Students learn how to identify micro-organisms of medical microbiology with emphasis on the characteristics of clinically significant micro-organisms and their biochemical profile, media for isolation, and identification methods for selected pathogens. Introduces identification methods, theories, and techniques used in basic bacteriology 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 HEMATOLOGY 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**

### **MLT 242 CLINICAL CHEMISTRY PRACTICUM**

4 Units; 12.5 hours lab

*Prerequisite: MLT 230*

*Limitation: Completion of all required didactic courses and acceptance into a clinical site.*

Provides entry-level clinical laboratory practice and experience in the department of general and special chemistry. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations.

**NR**

### **MLT 243 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY**

3 Units; 3 hours lecture

*Prerequisite: MLT 236 & Official Admission into the MLT Program*

Introduces the basic principles of antigen and antibody reactions and serological procedures. Includes accurate measurement strategies.

**NR**

### **MLT 244 CLINICAL HEMATOLOGY, COAGULATION, AND URINALYSIS PRACTICUM**

4 Units; 12.5 hours 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.

**NR**

### **MLT 252 CLINICAL MICROBIOLOGY PRACTICUM**

4 Units; 12.5 hours lab

*Prerequisite: MLT 232*

*Limitation: Completion of all required didactic courses and acceptance into a clinical site.*

Provides entry-level clinical laboratory practice and experience in the department of microbiology. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as numerous bench/manual techniques. Competence will be evaluated based on final clinical evaluations.

**NR**

### **MLT 253 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY PRACTICUM**

3 Units; 10 hours lab

*Prerequisite: MLT 243 & MLT 244 or MLT 242 or MLT 252*

*Limitation: Completion of all required didactic courses and acceptance into a clinical site.*

Provides entry-level clinical laboratory practice and experience in the department of immunology/serology, and immuno-hematology. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations.

**NR**

## **Music**

### **MUS 1 THE BASICS OF MUSIC**

3 Units; 3 hours lecture

*Transfers: CSU, UC*

Emphasizing the principles and procedures of music: rhythm and pitch notation, scales (major, minor, modal), key signatures, intervals, chord structures, sight-singing, dictation, and keyboard.

**NR**

### **MUS 10 HARMONY I**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: MUS 1

An intensive study of diatonic harmony in major and minor modes; roman numeral analysis; part-writing using root position triads; harmonization of a given melody; non-harmonic tones; strophic, binary, and ternary forms.

**NR**

### **MUS 11 HARMONY II**

3 Units; 3 hours lecture

Transfers: 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.

**NR**

### **MUS 12 HARMONY III**

3 Units; 3 hours lecture

Transfers: 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.

**NR**

### **MUS 14 JAZZ COMPOSITION AND ARRANGING**

3 Units; 3 hours lecture

Transfers: 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.

**NR**

### **MUS 15 MUSIC COMPOSITION**

3 Units; 3 hours lecture

Transfers: 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.

**NR**

### **MUS 18 ADVANCED MUSIC COMPOSITION**

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: MUS 15

Composition of large scale chamber works using intermediate to advanced level 20th and 21st century compositional techniques.

Covers writing for combinations of standard orchestral instruments and the development of individual compositional style (formerly MUS 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.

**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.

**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, Schoenberg will be examined and demonstrated. The musical life and contributions of each composer will be studied.

**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.

**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.

**NR**

### **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 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 combined total of four enrollments in MUS 34 and 35.

**R-E-3**

**MUS 39  
COMMERCIAL MUSIC ENSEMBLE**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU, UC

*Limitation: Audition with college faculty where students demonstrate proficiency on instrument including technique, time, tone, knowledge of genres, and stylistic skills.*

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, midi 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

*Limitation: Audition with music faculty. Skills to be presented in the audition: exact rhythm, precise intonation, and musicality.*

*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

*Limitation: Audition with music faculty. Skills needed to be presented in the audition: exact rhythm, precise intonation, and musicality.*

*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 I**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

*Recommended Preparation: MUS 10 or placement audition where students demonstrate skills equivalent to those learned in MUS 10.*

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. Students are limited to a combined total of four enrollments in MUS 46, 140, and 190.

**NR**

**MUS 47  
SADDLEBACK COLLEGE BIG BAND**

2 Units; 1 hour lecture; 3 hours lab

Transfers: CSU, UC

*Limitation: Audition with college faculty. Where student demonstrates ability to sight-read, identify and write key signatures and all major and minor scales, differentiate between major, minor, augmented and diminished intervals, demonstrate use of all diatonic chords in music, and performance of rhythmic patterns in music.*

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, 197, and 246.

**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

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, 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 faculty demonstrating ability to sight read and knowledge of all scales and keys.

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, 166, 167, 168, 169, 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

Transfers: CSU, UC

Recommended Preparation: Two years of instrumental training at a minimum of a high school level with ability to sight read and knowledge of all scales and keys.

Chamber music is designed for pianists, string, woodwind and brass players to study chamber-music works from the standard repertoire. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, 166, 167, 168, 169, and 266.

**NR**

### **MUS 75 STRING LITERATURE**

2 Units; 1 hour lecture; 3 hours lab

Transfers: CSU, UC

Recommended Preparation: Two years of instrumental training

Designed to analyze and perform traditional and contemporary string literature from 18th century to present day.

**NR**

### **MUS 78 KEYBOARD LITERATURE & INTERPRETATION - BAROQUE AND CLASSICAL**

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: MUS 55A or demonstrated keyboard proficiency

Keyboard Literature of Baroque and Classical Periods, their performance traditions and interpretation. Expands knowledge of keyboard music history and performance. Great performers of the past and their legacy.

**NR**

### **MUS 80 BEGINNING VOICE**

1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Emphasizes vocal techniques, including tone production, breath control, and pronunciation, as well as music literature. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82.

**NR**

### **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 HARPSICHORD  
TECHNIQUE AND LITERATURE**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU, UC

Recommended Preparation: MUS 55A or demonstrated keyboard proficiency

Introductory Study of Harpsichord, its history, performance practices, technique and repertoire. Masterclass format. Students will learn Renaissance and Early Baroque pieces written for harpsichord, as well as basic ornaments, dynamics and articulation on the instrument. Emphasis on short pieces from English Virginal and Italian Cembalo schools of the 17th century. Students are limited to a combined total of four enrollments in MUS 86, 87, 88, and 89. Formerly MUS 106.

**NR**

**MUS 87  
HARPSICHORD LITERATURE AND  
TECHNIQUE II - LATE BEGINNER**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU, UC

Recommended Preparation: MUS 86 or demonstrated harpsichord proficiency

Second semester study of Harpsichord, its history, performance practices, technique and repertoire. Masterclass format. Students will review Renaissance and early Baroque pieces written for harpsichord, and will study mid-Baroque (up to 1680s) pieces and their ornaments, fingering, dynamics and articulation on the instrument. Emphasis on short pieces from German and French harpsichord schools of the mid-late 17th century. Students are limited to a combined total of four enrollments in MUS 86, 87, 88, and 89. Formerly MUS 107.

**NR**

**MUS 88  
HARPSICHORD LITERATURE AND  
TECHNIQUE III -EARLY INTERMEDIATE**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU, UC

Recommended Preparation: MUS 87 or demonstrated harpsichord proficiency

Third semester study of Harpsichord, its history, performance practices, technique and repertoire. Masterclass format. Students will learn high 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  
HARPSICHORD LITERATURE AND  
TECHNIQUE IV -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 pieces from Renaissance, Baroque, Galant, Early Classical and Contemporary styles written for harpsichord, as well as ornaments, fingering, dynamics tempi, varied repeats and articulation on the instrument. Emphasis on pieces from French Clavecin school of the 18th century (High Baroque), early Classical/Galant and Contemporary styles. Students are limited to a combined total of four enrollments in MUS 86, 87, 88, and 89. Formerly MUS 109.

**NR**

**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 LATE 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, 132, and CTVR 118.

**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 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, 132, and CTVR 118.

**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, 132, and CTVR 118.

**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, 132, and CTVR 118.

**NR**

**MUS 140**  
**IMPROVISED 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 46, 140, and 190. 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 176 FUNCTIONAL SKILLS FOR PIANISTS I**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU

Recommended Preparation: MUS 54B or demonstrated proficiency

Sight-reading, scales and etudes, special technique, beginning figured bass, short cadenzas, simple jazz 4-way close, simple c-clef and open score reading; beginning improvisation and functional harmony. Recommended for students intending to transfer as piano majors. Students are limited to a combined total of four enrollments in MUS 176, 177, 202, and 203.

**NR**

### **MUS 177 FUNCTIONAL SKILLS FOR PIANISTS II**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU

Recommended Preparation: MUS 176 or demonstrated proficiency

Advanced sight-reading, scales and etudes, special technique, intermediate figured bass, full cadenzas, jazz 4-way close with texture development, intermediate c-clef and open score reading; improvisation and functional harmony. Recommended for students intending to transfer as piano majors. Functional Skills II is a continuation of Functional Skills I. Students are limited to a combined total of four enrollments in MUS 176, 177, 202, and 203.

**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 181 KEYBOARD LITERATURE AND INTERPRETATION - ROMANTIC TO MODERN**

3 Units; 3 hours lecture

Transfers: CSU

Recommended Preparation: MUS 55A or 78 or demonstrated proficiency

Keyboard Literature of the Romantic, Impressionistic and Modern Periods, their performance traditions and interpretation.

Expands knowledge of keyboard music history and its performance legacy.

**NR**

### **MUS 182 SOUL MUSIC ENSEMBLE**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU

Limitation: Skills or performance: Student must perform at college level and sight read various soul music genres. Courses without an audition requirement include: MUS 1, 54a, or 60.

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: Skills or performance: Student must perform at college level create electronic music from various genres. Courses without audition requirement include: MUS 1, 54a, or 60.

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 for electronic music and genre-specific 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 187 MODERN ROCK AND POP MUSIC ENSEMBLE**

2 Units; 2 hours lecture; 1 hour lab

Transfers: CSU

Limitation: Skills or performance: Student must perform at college level and sight read various genres. Courses without audition requirement include: MUS 1, 54a or 60.

Rehearsal and performance of current popular music. Open to instrumentalists, midi instruments/controllers, vocalists, emcees and DJs. Additional focus on sound reinforcement and the business aspects of live performance. Public performance required. Students are limited to a combined total of four enrollments in MUS 39, 182, 184, and 187.

**NR**



### **MUS 190 JAZZ IMPROVISATION II**

3 Units; 3 hours lecture; 1 hour lab

Transfers: CSU

*Limitation: Instructor permission to ensure that students have the jazz improvisational and theoretical knowledge and skills to succeed in the course expectations.*

*Recommended Preparation: MUS 10 or MUS 46*

Study of jazz theory, transcription and historically important improvisers. Introduction to melodic minor scale theory, harmonic minor scale theory, modes from other cultures (Egyptian, Japanese, Persian, Indian, Afghan, and others). Also introduces music from the Lennie Tristano School; melodic, harmonic, and improvisatorially. Students are limited to a combined total of four enrollments in MUS 46, 140, and 190.

**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 197 REHEARSAL AND PERFORMANCE (JAZZ STUDIES)**

1 Unit; 3 hours lab

Transfers: CSU

*Limitation: Audition with college faculty: Students will perform a musical selection on given instrument, demonstrate proficiency in interpretative musical styles, and demonstrate technical proficiency on given instrument. Performance audition requires ability to sight-read.*

*Recommended Preparation: Previous instrumental training in jazz performance, ability to sight read and knowledge of all scales and keys.*

Emphasizes the preparation and production of jazz combos in public performance. Students are limited to a combined total of four enrollments in MUS 47 and 197, and 246. Formerly offered as MUS 297.

**R-E-3**

### **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

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 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 sound, cohesion and balance. 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 advanced literature. 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 234 SATB VOICED COMMUNITY CHORALE**

2 Units; 1 hour lecture; 3 hours lab

*Limitation: Audition with college faculty where student must demonstrate their ability to sight read and their understanding of the basic aspects of choral music*

Choral performance studies focusing on a broad range of choral music from multiple periods and styles of music. Included repertoire is smaller concert works suitable for chamber chorus, both a cappella and accompanied, as well as works with larger forces such as masses, requiems, staged works, and oratorio. Rehearsals include the study of a broad range of choral issues as the music relates to the specific period of composition, and the changing role of the chorus within the context of musical composition. Students are limited to a combined total of four enrollments in MUS 32, 33, and 234.

**NR**

### **MUS 241 MEDIUM 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 AFRICAN-AMERICAN 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 sightread, 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, 197, and 246.

**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 of 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 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 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**

## **Nursing**

### **N 160 PHARMACOLOGY FOR NURSING**

3 Units; 3 hours lecture

*Transfers: CSU*

*Prerequisite: BIO 12*

*Recommended Preparation: BIO 11*

The focus of this course is safe administration of drug therapy covered topics are: Principles of therapeutic pharmacology, Drug names, classifications, and dosages, Safe drug administration, Nursing assessments, interventions, and patient education associated with drug therapy.

**NR**

### **N 161 LIFECYCLE 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 immunizations, 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**

3 Units; 3 hours lecture

Transfers: CSU

Prerequisite: BIO 11, 12, 15, with a grade of "C" or better, completion of ENG 1A or ENG 1AH, and official admission to the nursing program

Limitation: Official admission to the nursing program.

Corequisite: N 170 Lab

Recommended Preparation: Completion of or concurrent enrollment in N160 and 165 with a grade of "C" or better

Provides the theoretical base for application of the nursing process at a beginning level. The focus is on providing patient centered care in the adult medical-surgical and community settings. Knowledge of the nursing practice and professional standards, evidence based practice, safety and quality improvement, nursing informatics and effective collaboration with health care team members are introduced. Principles of physical and psychosocial assessment, pharmacology and nutrition, professional and therapeutic communication, and health teaching are emphasized. The following concepts are integrated: diversity among US cultural groups, geriatric nursing, disease process and illness prevention, restorative care, end of life care, and the values and attitudes required of the professional registered nurse.

**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 or Eng 1AH, and official admission to the nursing program

Limitation: Official admission into 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 application of the nursing process at a beginning level. The focus is on patient centered care in adult medical surgical and community settings. The following concepts

are emphasized within clinical settings: knowledge of nursing practice and professional standards, evidence based practice, safety and quality improvement, nursing informatics and effective collaboration with health care team members, physical and psychosocial assessment, pharmacology and nutrition, professional and therapeutic communication and health teaching. The following concepts are integrated: diversity among US cultural groups, geriatric nursing, disease process and illness prevention, restorative care, end of life care, and the values and attitudes required of the professional registered nurse.

**NR**

## **N 171 MENTAL HEALTH NURSING**

2 Units; 2 hours lecture

Transfers: CSU

Prerequisite: N 170

Limitation: Official admission to the nursing program: 1. Completion of program application 2. Current physical exam 3. Current CPR certification 4. Current liability insurance 5. Current background check

Corequisite: N 171 lab

Recommended Preparation: PSYC 1

Provides the theoretical base for application of the nursing process and biopsychosocial concepts for patients affected by mental disorders. Focus on patient centered care in psychiatric and community mental health settings. Knowledge of nursing practice and professional standards, evidence based practice, safety/quality improvement, informatics and team collaboration are introduced. Emphasis will be on principles of mental health nursing, psychosocial assessment, therapeutic communication, pharmacology, health promotion, education, nutrition, diversity among US cultural groups, human development across the lifespan, disease process, illness prevention, community health, advocacy, legal/ethical implications, and the values and attitudes required of the registered nurse. Letter grade only.

**NR**

## **N 171 MENTAL HEALTH NURSING LAB**

1 Unit; 3 hours lab

Transfers: CSU

Prerequisite: N 170

Limitation: Official admission to the nursing program: 1. Completion of program application 2. Current physical exam 3. Current CPR certification 4. Current liability insurance 5. Current background check

Corequisite: N 171 Lecture

Recommended Preparation: PSYC 1

Application of the nursing process and biopsychosocial concepts for patients affected by mental disorders. Focus on patient centered care in psychiatric and community mental health settings.

Knowledge of nursing practice and professional standards, evidence based practice, safety/quality improvement, informatics and team collaboration are introduced. Emphasis will be on principles of mental health nursing, psychosocial assessment, therapeutic communication, pharmacology, health promotion, education, nutrition, diversity among US cultural groups, human development across the lifespan, disease process, illness prevention, community health, advocacy, legal/ethical implications, and the values and attitudes required of the registered nurse.

**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

Limitation: Admission to the nursing program

Corequisite: N 172 Lab

Recommended Preparation: HSC 228 N 212

Provides theory of nursing process to care for moderately complex, adult patients in medical-surgical and community settings. Focuses on patient centered care, application of nursing practice and professional standards, evidenced based practice, safety and quality improvement, nursing informatics and effective collaboration with health care team members. Pathophysiology, physical and psychosocial needs for moderately complex adults with respiratory, endocrine, renal, musculoskeletal, immunity, cardiac, neurological and gastrointestinal dysfunction are emphasized. The following concepts are integrated: diversity among US cultural groups, geriatric nursing, disease process and illness prevention, restorative care, end of life care, and the values and attitudes required of the professional registered nurse.

**NR**

## **N 172 MEDICAL-SURGICAL NURSING LAB**

5 Units; 15 hours lab

Transfers: CSU

Prerequisite: N 160, 165, 170, and 171, with grades of "C" or better

Limitation: Admission to nursing program

Corequisite: N 172 Lecture

Recommended Preparation: HSC 228 N 212

Application of the nursing process to care for moderately complex, adult patients in medical-surgical and community settings. Focuses on providing patient centered care, application of nursing practice and professional standards, evidenced based practice, safety and quality improvement, nursing informatics and effective collaboration with health care team members. Principles of pathophysiology, physical and psychosocial

needs for moderately complex adults with respiratory, endocrine, renal, musculoskeletal, immunity, cardiac, neurological and gastrointestinal dysfunction are emphasized. The following concepts are integrated: diversity among US cultural groups, geriatric nursing, disease process and illness prevention, restorative care, end of life care, and the values and attitudes required of the professional registered nurse.

**NR**

**N 173  
NURSING CARE OF CHILDREN AND FAMILIES**

1.5 Units; 1.5 hours lecture

*Transfers:* CSU

*Prerequisite:* N 161 and N 172 with lab with a grade of "C" or better

*Limitation:* Official admission to the nursing program; Tb test negative; If Tb test positive must have negative chest x-ray and symptoms evaluation

*Corequisite:* N 173 Lab

*Recommended Preparation:* HSC 228 and N 245

Provides the theoretical basis for integration of the nursing process to care for neonates, infants, children and adolescents and their families. The focus is on providing family centered care, the application of nursing practice and professional standards, evidence based practice, safety and quality improvement, nursing informatics and effective collaboration with health care team members. Nutrition, medication/fluid administration, physiology, growth and development, comfort/pain management and advocacy are emphasized. The following concepts are integrated: diversity among US cultural groups, disease process and illness prevention, restorative care, end of life care, and the values and attitudes required of the professional registered nurse. Letter grade only

**NR**

**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 integration and application of the nursing process to care for neonates, infants, children and adolescents and their families. The focus is on providing family centered care, the application of nursing practice and professional standards, evidence based practice, safety and quality improvement, nursing informatics and effective collaboration with health care team members. Nutrition, medication/fluid

administration, physiology, growth and development, comfort/pain management, and advocacy are emphasized. The following concepts are integrated: diversity among US cultural groups, disease process and illness prevention, restorative care, end of life care, and the values and attitudes required of the professional nurse.

**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

*Limitation:* official admission to the nursing program.

*Corequisite:* N 174 Lab

Provides the theoretical basis for integration of the nursing process to care for women, newborns and to their families/significant others. The focus is on providing family centered care while applying nursing practice and professional standards, evidence based practice, safety and quality improvement, nursing informatics and effective health care team collaboration. Nutrition, medication/fluid administration, physiology, development and advocacy are emphasized. The following concepts are integrated: US cultural group diversity, legal/bioethical considerations, health promotion, disease process and illness prevention, restorative care, end of life care and the values and attitudes required of the professional registered nurse. 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

*Limitation:* Official admission to the nursing program.

*Corequisite:* N 174

Focuses on integration and application of the nursing process to care for obstetrical patients, newborns, and families/significant others. The focus is on providing family centered care while applying nursing practice and professional standards, evidence based practice, safety and quality improvement, nursing informatics and effective health care team collaboration. Nutrition, medication/fluid administration, physiology, growth and development, comfort/pain management, and advocacy are emphasized. The following concepts are integrated: US cultural group diversity, legal/bioethical considerations, health promotion, disease process and illness prevention, restorative care, end of life care and the values and attitudes required of the professional nurse.

**NR**

**N 176  
ADVANCED NURSING**

3 Units; 3 hours lecture

*Transfers:* CSU

*Prerequisite:* N 174 with a "C" grade or better

*Limitation:* Admission to the nursing program

*Corequisite:* N 176 Lab

*Recommended Preparation:* HSC 217, 226

Provides the theoretical basis for integration of the nursing process to care for acutely and critically ill adults. Emphasizes pathophysiology and the biopsychosocial needs for acutely ill adults with: cardiovascular, respiratory renal, neurological, gastrointestinal, endocrine and complex multisystem dysfunction. Principles of leadership and management, professional development, scope of practice, legal and ethical issues, principles of nutrition, the role of the nurse in the community and transition to the role of a registered nurse are integrated throughout the course. Concepts of diversity and culturally competent care for cultural groups in the United States are presented. Letter grade only.

**NR**

**N 176  
ADVANCED NURSING LAB**

5 Units; 15 hours lab

*Transfers:* CSU

*Prerequisite:* N 174 with a grade of "C" or better

*Corequisite:* N 176 Lecture

*Recommended Preparation:* HSC 217 and 226

Focuses on the application and integration of the nursing process to care for acutely and critically ill adults in a variety of acute care settings. Through clinical rotations, community health experiences and preceptorship, students appraise and model 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. Letter grade only.

**NR**

**N 202  
SUCCESS STRATEGIES IN NURSING**

1 Unit; 1 hour lecture

*Limitation:* Official admission to the nursing program is needed as course is designed to be a support course to promote success in N170 and prepare for N172.

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*

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 on 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 Unit; 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 SKILLS LAB-BASIC**

*0 Unit; 0.25 hour lab*

Includes demonstration and practice of basic manual skills and procedures necessary for the student at the fundamental level. Develops competency in performance of skills such as physical assessment, isolation, oxygenation, wound care, urinary catheters, medication administration, and other beginning skills. Recommended for students in N170. Non-credit, open-entry open-exit.

**R-E-1**

## **N 264 SKILLS LAB-SPECIALTIES**

*0 Unit; 0.25 hour lab*

Includes demonstration and practice of nursing skills and procedures necessary for the student at the maternal child health-care level. Develops competency in performance of skills such as newborn assessment, fetal monitoring, and pediatric intravenous medications. Recommended for nursing students enrolled in N173/N174. Offered for non-credit only. Open entry/open exit.

**R-E-1**

## **N 265 SKILLS LAB-ADVANCED**

*0 Unit; 0.25 hour lab*

Includes demonstration and practice of nursing skills and procedures necessary for the student at the advanced medical-surgical level. Develops competency in performance of complex skills such as intravenous fluid administration, airway management, and Mock Code. Recommended for students enrolled in N176. Open-entry/ open-exit. Offered non-credit only.

**R-E-1**

## **N 267 SKILLS LAB-INTERMEDIATE**

*0 Unit; 0.25 hour lab*

Includes demonstration and practice of intermediate skills and procedures necessary for the student at the intermediate level. Develops competency in performance of skills such as suctioning, IV insertion, and other sterile procedures. Recommended for intermediate medical-surgical nursing students enrolled in N172. Offered as non-credit, open-entry/open exit.

**R-E-1**

## **N 268 SKILLS LAB REVIEW**

*0 Unit; 1 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. Open entry/open exit. Offered for non-credit only. Recommended for students in any core nursing course.

**R-E-1**

## **N 280 NURSING CAREPLANS AND MAPS**

*1 Unit; 1 hour lecture*

Assists nursing students who want a more in-depth study of the nursing process including the creation of nursing care plans and maps. Focuses on the biopsychosocial needs of case study patients including assessment and the formation of appropriate nursing diagnosis, goals, nursing intervention, and evaluation. Use of APA formatting will be reviewed. Intended for the student who is already enrolled in a nursing program.

**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

Transfers: CSU, UC

Corequisite: PRSN 901

Recommended Preparation: College-level reading ability or ENG 340

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

Transfers: CSU, UC

Prerequisite: PRSN 1 or two years of high school Persian/Farsi

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

Transfers: CSU, UC

Prerequisite: PRSN 2 or three years of high school Persian

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 21 INTRODUCTION TO PERSIAN CULTURE

3 Units; 3 hours lecture

Transfers: CSU, UC

Recommended Preparation: College-level reading ability

Traces the development of the culture of Persian-speaking nations including history, philosophy, political ideas, literature, music, arts, science, geography, and customs and its influence on the United States and the World. Conducted in English. No prior study of the Persian Language or culture is required.

**NR**

### PRSN 901 PERSIAN LANGUAGE LAB

0.5 Unit; 1.5 hours 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

0.5 Unit; 1.5 hours 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

0.5 Unit; 1.5 hours 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

0.5 Unit; 1.5 hours 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 1H HONORS 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 nature of mind and consciousness, 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. The honors course emphasizes a seminar rather than lecture format for study of primary sources, an increased reliance on peer-reviewed articles, and research assignments that allow the student to pursue topics of individual interest. Credit may be earned for either PHIL 1 or 1H, but not both. Letter grade only.

**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 5 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 10 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**

### **PHIL 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.*

*Coresquisite: CWE 180*

*Recommended Preparation: HSC 104*

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. 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*

Introduction to digital photography to cover technical and aesthetic aspects. Includes operation of camera and lenses and photographic software. Fundamentals of composition, light, and portraiture are 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 101 INTRODUCTION TO DIGITAL PHOTOGRAPHY**

*1.5 Units; 1.5 hours lecture*

*Transfers: CSU*

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 (formerly PHOT 201).

**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 153 ADVANCED PHOTOSHOP & DIGITAL IMAGING**

3 Units; 2 hours lecture; 3 hours lab

Transfers: CSU

Prerequisite: PHOT 152

Recommended Preparation: PHOT 50

An advanced level course in photographic manipulation using Adobe Photoshop and third party plug-ins. Relevant technical and aesthetic issues will be covered. Large format and alternative media inkjet printing will also be 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: PHOT 55

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 177 PORTRAITURE PHOTOGRAPHY**

3 Units; 2 hours lecture; 3 hours lab

Transfers: CSU

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 (formerly PHOT 200).

**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**

## **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; Hooke's Law; simple harmonic motions; wave behavior; interference and standing waves; properties of fluids; Pascal's and Bernoulli's principles; temperature, heat, calorimetry, the gas laws, 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**

### **PHYS 2A INTRODUCTION TO PHYSICS**

5 Units; 4 hours lecture; 3 hours lab

Transfers: CSU, UC

Prerequisite: MATH 124

Recommended Preparation: PHYS 20 or high school physics

A study of mechanics, vibration and waves, fluids, and thermodynamics. Topics include kinematics and dynamics in one and two dimensions, Newton's Laws of motion, energy and momentum, conservation principles, statics, kinematics and dynamics of rotation, elasticity, Hooke's Law, simple harmonic motions, wave behavior, interference and standing waves, properties of fluids, Pascal's and Bernoulli's principles, temperature, heat calorimetry, the gas laws, and the laws of thermodynamics. Intended for students in the sciences and related subjects who are required to complete a physics course based on trigonometry.

**NR**

### **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 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.

**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**

## **PHYS 20 THE IDEAS AND EVENTS OF PHYSICS**

4 Units; 3 hours lecture; 3 hours lab

Transfers: CSU, UC

Major discoveries, ideas and methods in physics. Includes simple motions, the nature of matter and energy, electric and magnetic effects, and 20th-century ideas in relativity, and atomic and nuclear science. Emphasis is on understanding concepts rather than mathematical aspects. This course is also suggested for students having no previous physics training as preparation for more advanced physics courses.

**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 class size, more independent reading, expectation of a greater degree of student participation and involvement, and research assignments that allow the student to pursue topics and projects of individual interest. Credit may be earned for either 1 or 1H, but not both. Letter grade only.

**NR**

### **PS 4 INTRODUCTION TO POLITICAL SCIENCE**

3 Units; 3 hours lecture

Transfers: CSU, UC

Introduces the study of politics. Designed to familiarize the student with the basic systems, ideologies, and models of political analysis.

**NR**

### **PS 10H HONORS POLITICAL THEORY**

3 Units; 3 hours lecture

Transfers: CSU, UC

A survey and analysis of selected political theorists and concepts. Ancient, classical, medieval, Renaissance, and modern political theory will be studied. The lineage of political concepts such as justice, freedom, power, and property will be traced as they evolved over time. Letter grade only.

**NR**

### **PS 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 ECON 11. Credit given in either area, not both.

**NR**

### **PS 12 COMPARATIVE POLITICS AND GOVERNMENT**

3 Units; 3 hours lecture

Transfers: CSU, UC

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

Corequisite: 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.

**NR**

## **PORT 901 PORTUGUESE LANGUAGE LAB**

0.5 Unit; 1.5 hours learning center

Corequisite: PORT 1

Requires concurrent enrollment in Portuguese 1. Enhances and provides practice in skills learned in Portuguese 1 course.

**NR**

## **PORT 902 PORTUGUESE LANGUAGE LAB**

0.5 Unit; 1.5 hours learning center

Corequisite: PORT 2

Requires concurrent enrollment in Portuguese 2. Enhances and provides practice in skills learned in Portuguese 2 course.

**NR**

## **PORT 903 PORTUGUESE LANGUAGE LAB**

0.5 Unit; 1.5 hours learning center

Corequisite: PORT 3

Requires concurrent enrollment in Portuguese 3. Enhances and provides practice in skills learned in Portuguese 3 course.

**NR**

## **PORT 904 PORTUGUESE LANGUAGE LAB**

0.5 Unit; 1.5 hours learning center

Corequisite: PORT 4

Requires concurrent enrollment in Portuguese 4. Enhances and provides practice in skills learned in Portuguese 4 course.

**NR**

## **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.

**NR**

### **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.

**NR**

## **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.

**NR**

## **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. Credit may be earned for PSYC 2 or 2H, but not both.

**NR**

## **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.

**NR**

## **PSYC 4 INTRODUCTION TO COGNITIVE PSYCHOLOGY**

3 Units; 3 hours lecture

Transfers: CSU, UC

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.

**NR**

**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.

**NR**

**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 socioeconomic 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: Placement by the current assessment process or successful completion of MATH 253 with a "C" or better.

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

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 CalBRE (California 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 CalBRE (California 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. Applies toward CalBRE (California Bureau of Real Estate) basic education. For professionals, consumers and investors.

**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 California Bureau of Real Estate (CalBRE) basic education. For consumers, professionals, 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*

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*

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 (Bureau of Real Estate Appraisers).

**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**  
**ESCROW**

*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*

Professional management of residential, commercial, retail, and industrial properties: organization, staffing, marketing, accounting, operations, maintenance, landlord/tenant relations. Addresses antitrust, disclosure, tenant screening, antidiscrimination, 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.

**NR**

**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.

**NR**

**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.

**NR**



## **RE 250 REAL ESTATE LICENSE 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](http://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.

**NR**

## **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.

**NR**

### **Sign Language**

## **SL 1 AMERICAN SIGN LANGUAGE I**

4 Units; 4 hours lecture

*Transfers: CSU, UC  
Recommended Preparation: 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.

**NR**

## **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.

**NR**

## **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.

**NR**

## **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.

**NR**

## **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. Added updated text/reference

**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 1H HONORS 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. The Honors course is enriched by the development of ePortfolios, competitive speaking experiences, and reduced class size. Credit may be earned for either Speech 1 or Speech 1H, but not both. Letter grade only.

**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 ENG 1A with a grade of "C" or better*

Focuses on the application of argumentative methods, analysis, sound reasoning, and critical thinking. Through participation in two types of debates on current topics and writing a series of persuasive essays totaling eight to ten thousand words, students will research, formulate propositions, and discover culturally diverse issues as they apply to social and personal decision-making.

**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

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  
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**

**SP 106  
FORENSICS ACTIVITY**

2 Units; 1 hour lecture; 3 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**

**SP 106  
FORENSICS ACTIVITY**

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**

## 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 23  
FOOD AND SOCIETY**

3 Units; 3 hours lecture  
Transfers: CSU, UC

Course examines multiple perspectives of the past, present, and future food system in the United States and globally. Topics include: theoretical perspectives of the food system, the history of the food system, industrialization, agricultural practices, the food industry, global food, food labor, access and food insecurity, food politics, food policy, culture, health and nutrition, the media and marketing, schools and education, water, and social change.

**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  
SOCIOLOGY 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 health-care 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 1H  
HONORS 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. The Honors course is enriched through limited class size; expanded writing assignments and oral presentations; additional content in history, politics, and culture; and the development of listening comprehension and conversational skills in a socio-linguistic framework. Credit may be earned for either 1 or 1H, but not both. Letter grade only.

**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 2H  
HONORS ELEMENTARY SPANISH**

5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: SPAN 1 or SPAN 1H

Designed to further the fundamentals of communicative competence in daily spoken Spanish. Although the focus remains on listening comprehension and speaking, critical thinking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. This Honors course offers an enriched experience for accelerated students through limited class size, a seminar format, the reading of level-appropriate adapted Hispanic works and cultural studies, and the application of higher critical thinking skills. Equivalent to two years high school Spanish. Credit may be earned for either 2 or 2H, but not both. Letter grade only.

**NR**

**SPAN 3  
INTERMEDIATE SPANISH**

5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: SPAN 2 or three 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 basic 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. Practice in writing essays and summaries in Spanish based on literature, and in a variety of topics and sources from print and online magazines and newspapers. Continues to refine speaking and listening skills.

**NR**

**SPAN 10  
INTERMEDIATE CONVERSATIONAL  
SPANISH**

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: SPAN 2 or four years of high school Spanish

Designed to develop fluency in Spanish. The emphasis is on both formal and informal expression and conversation in Spanish.

**NR**

**SPAN 11  
ADVANCED CONVERSATIONAL  
SPANISH**

3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: SPAN 3 or SPAN 10

Designed to increase the student's ability to comprehend native spoken Spanish and increase oral fluency. Reading texts, watching Hispanic films to examine various aspects of Hispanic culture, and written and oral responses enable students to acquire new vocabulary and structures.

**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. Conducted in Spanish.

**NR**

**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. Conducted in Spanish.

**NR**

**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. Conducted in Spanish.

**NR**

**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. Conducted in Spanish.

**NR**

**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.

**NR**

**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 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, communication, and achievement levels for students with disabilities in order to determine appropriate accommodations for learning. In conjunction with faculty, this course develops the student education contract and plan. Orientation to supportive services and specialized learning outcomes are provided. 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.

**NR**

**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  
MATHEMATICS**

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**  
**PRACTICUM**

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 and/or learning disabilities with the opportunity to acquire and reinforce skills on the computer using their access technology with supervision. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis.

**NR**

## 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, 107, and 212.

**NR**

**TA 11**  
**STAGE MOVEMENT**

3 Units; 2 hours lecture; 3 hours lab

*Transfers: CSU, UC*

This course explores movement as a tool to aid in the acting process and to enhance the actor's physical ability to communicate on stage. Emphasis is on the integration of verbal and non-verbal forms of communication focusing on basic movement skills, physical awareness, strength, flexibility, relaxation, control, and movement improvisation. Students are limited to a combined total of four enrollments in TA 11, 35, 136, 290, and SP 35.

**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.

**R-E-3**

**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.

**R-E-3**

**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.

**R-E-3**

**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.

**R-E-3**



**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 playwrighting, 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.  
**NR**

**TA 22  
MUSICAL THEATRE HISTORY AND APPRECIATION**

3 Units; 3 hours lecture  
Transfers: CSU, UC

Introduces the student to the history and literature of the musical theatre from mid-19th century to present day. Explores the stylistic distinctions found in the musical as well as its social and cultural significance. Emphasis is placed on the contributions and influence of the individual writer, composer, or lyricist.  
**NR**

**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.  
**NR**

**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.  
**NR**

**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, 290, and SP 35.  
**NR**

**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 107  
SCENE STUDY FOR AMERICAN MUSICAL THEATRE**

3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: 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, 107, and 212 (formerly TA 210).  
**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, 111, and 116.  
**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 111  
MUSICAL THEATRE AUDITION TECHNIQUES**

3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
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, 111, and 116 (formerly TA 211).  
**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 116  
AUDITION AND INTERVIEW TECHNIQUES FOR KCACTF AND URTA**

1 Unit; 3 hours lab  
Transfers: CSU

Develops technical skills, acting skills and interview skills specific to participation in the Kennedy Center American Theatre Festival auditions and the University Resident Theatre Association auditions. Students are limited to a combined total of four enrollments in TA 108, 111, and 116 (formerly TA 214).  
**R-E-3**

**TA 125  
REHEARSAL AND PERFORMANCE - NEW WORKS (MUSICAL)**

2 Units; 6 hours lab  
Transfers: CSU

Limitation: Audition with faculty 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 TA 35 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 previous classes 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, 290, and SP 35.

**NR**

**TA 150  
SUMMER CONSERVATORY MUSICAL  
THEATRE**

*2 Units; 6 hours lab*

*Transfers: CSU*

*Limitation: By audition only*

Specializing in musical theatre training as cast or an orchestra member for a specific theatrical production. Students are limited to a combined total of four enrollments in TA 150, 152, 153, 154, and 155 (formerly TA 250).

**NR**

**TA 151  
SUMMER CONSERVATORY MUSICAL  
THEATRE - PRODUCTION**

*2 Units; 6 hours lab*

*Transfers: CSU*

*Recommended Preparation: ETT 40 or 142*

Students will gain practical experience in a Summer Conservatory style production in any of the following: stage management, construction, scenery, properties, costume, lighting, sound, and running crews (formerly TA 251).

**NR**

**TA 152  
SUMMER CONSERVATORY EARLY  
20TH CENTURY MUSICAL THEATRE**

*2 Units; 6 hours lab*

*Transfers: CSU*

*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 150, 152, 153, 154, and 155 (formerly TA 252).

**NR**

**TA 153  
SUMMER CONSERVATORY MID 20TH  
CENTURY MUSICAL THEATRE**

*2 Units; 6 hours lab*

*Transfers: CSU*

*Limitation: By audition only*

Specializes in musical theatre training as a cast member for a Summer Conservatory style production originally written in the mid 20th century. Students are limited to a combined total of four enrollments in TA 150, 152, 153, 154, and 155 (formerly TA 253).

**NR**

**TA 154  
SUMMER CONSERVATORY LATE 20TH  
CENTURY MUSICAL THEATRE**

*2 Units; 6 hours lab*

*Transfers: CSU*

*Limitation: By audition only*

Specializing 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 150, 152, 153, 154, and 155 (formerly TA 254).

**NR**

**TA 155  
SUMMER CONSERVATORY  
CONTEMPORARY MUSICAL THEATRE**

*2 Units; 6 hours lab*

*Transfers: CSU*

*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 150, 152, 153, 154, and 155 (formerly TA 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. An acting course for the screen. Includes acting in film and television commercials, episodic screen work, and electronic journalism. Concentration on agents, unions, photos, resumes for entertainment industry employment. Directed exercises and dramatic scenes. Students are limited to a combined total of four enrollments in TA 11, 35, 136, 290, and SP 35.

**NR**

**Travel and Tourism**

**TOUR 250  
INTRODUCTION TO THE EXCITING  
WORLD OF TRAVEL & TOURISM**

*3 Units; 3 hours lecture*

Introduction to the basics of the travel industry and its various avenues for an exciting career. Methods for both domestic and international itineraries along with understanding industry documents will be discussed. There will be discussions of industry regulations, airline and baggage fees, internet options and career opportunities in all aspects of the travel industry. This will include hotels, car rentals, rail service and cruises. There will also be discussion of travel opportunities that are available in consultation, sales, corporate, leisure, business and meeting planning. Related hospitality opportunities will also be discussed.

**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.

**NR**

**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.

**NR**

### **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.

**NR**

### **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 basic SABRE computer training including P.N.R. (Passenger Name Record).

**NR**

### **TOUR 260 ADVANCED AIRLINE COMPUTER TRAINING**

*2 Units; 1 hour lecture; 3 hours lab*

*Recommended Preparation: TOUR 259*

Designed for the advanced travel and tourism students with emphasis on advanced SABRE computer training, including invoice/itinerary and PHASE IV applications.

**NR**

## **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.

**NR**

### **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.

**R\_99**

## **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.

**NR**

### **WS 10H HONORS INTRO 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 gender as a social construct impacts social institutions, cultural practices and the lives of women and men. Emphasis is on how differences of race, ethnicity, class, sexuality and age define gendered experiences and identities. The Honors course is enhanced by a seminar format, more challenging reading assignments, more extensive writing assignments, and a smaller class size. Course may be taken for a letter grade only. Credit may be earned for WS 10 or 10H, but not both.

**NR**

### **WS 11H HONORS INTRODUCTION TO FEMINIST THEORY**

*3 Units; 3 hours lecture*

*Transfers: CSU, UC*

A challenge to the popular conception that feminism equals male bashing. Explores various definitions of feminism, the different ways women and men have conceptualized what it means to be a feminist, and how the concept of gender is used to critique society. Focus is on the contributions of feminist thought to understanding relations of power and privilege; analyses of the origins and operation of gender inequality; the intersection of gender with other categories of power and hierarchy such as race, ethnicity, and class; and feminist contributions to social protests and movements for change (formerly, WS 111H).

**NR**

### **WS 15 INTRODUCTION TO QUEER STUDIES**

*3 Units; 3 hours lecture*

*Transfers: CSU, UC*

Introduction to the ways that gender and sexuality, combined with race, class, ethnicity, nationality, and other differences, shape and are shaped by social, economic, political, and cultural forces and institutions. Designed to provide students with the opportunity to understand the dynamics of gender, sexuality, race, class, and other markers of identity; social and political movements for change; and individual and social transformations within a global context.

**NR**

### **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, social media 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.

**NR**

### **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.

**NR**



## 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; 1 hour lecture

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; 0.5 hour lecture; 1 hour lab

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 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

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, use of 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; 0.5 hour lab

0 Unit; 1 hour lecture; 2 hours lab

Theory and history of ceramics as well as basic techniques in ceramic slipcasting, including pouring low fire slip into molds, finishing, carving, underglazes, glazes, and overglaze applications, plus firing processes.

**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 61XA*

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 31XA*

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 33XA*

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 35XA*

Designed to explore the possibilities of working in glass by utilizing the kiln to fuse, tack, and slump objects using tested compatible glass. Create a variety of projects incorporating techniques learned in previous 'cold glass' courses.

**R\_99**



**ART 36XA  
BEGINNING JEWELRY METAL  
FABRICATION (EI)**

0 Unit; 0.5 hour lecture; 1 hour lab  
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; 0.5 hour lecture; 1 hour lab  
0 Unit; 1 hour lecture; 2 hours lab

*Recommended Preparation:* ART 36XA

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 36XB

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 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; 0.5 hour lecture; 1 hour lab  
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 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; 0.5 hour lecture; 1 hour lab  
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; 0.5 hour lecture; 1 hour lab  
0 Unit; 1 hour lecture; 2 hours lab

*Recommended Preparation:* ART 52X

Provides theory and demonstration of materials, applications, 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 53X

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 55XA  
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 55XB  
INTERMEDIATE CHINESE BRUSH  
PAINTING (EI)**

0 Unit; 1 hour lecture; 2 hours lab

*Recommended Preparation:* ART 55XA

Develop skills in handling the brush, ink, and color in a wide range of subjects while exploring concepts of design and composition. Explore history and aesthetics of Chinese painting.

**R\_99**

**ART 56X  
PASTEL PAINTING (EI)**

0 Unit; 1 hour lecture; 2 hours lab

Traditional and contemporary methods in the use of painting with pastels. The older adult explores a variety of techniques in the pastel medium.

**R\_99**

**ART 58X  
BEGINNING WATERCOLOR (EI)**

0 Unit; 0.5 hour lecture; 1 hour lab  
0 Unit; 1 hour lecture; 2 hours lab

Basic methods of applying watercolor: washes, color mixing, and brush technique. The spontaneity of transparent watercolor will be stressed and explored.

**R\_99**

**ART 59X  
INTERMEDIATE-ADVANCED  
WATERCOLOR (EI)**

0 Unit; 0.5 hour lecture; 1 hour lab  
0 Unit; 1 hour lecture; 2 hours lab

*Recommended Preparation:* ART 58X

Utilizing and incorporating color mixing in a broader palette for washes, glazing, and spontaneous interpretation of the subject matter. An increasing emphasis will be placed on individual exploration with the medium.

**R\_99**

**ART 61XA  
BEGINNING LAPIDARY (EI)**

0 Unit; 1 hour lecture; 2 hours lab

Explores the proper usage of lapidary machines for cutting and polishing gemstones: slab saw, trim saw, grinders, sanders, lapping wheels, polishers, and drills. Methods include how to cut, trim, grind, dop, sand, polish and set gemstones.

**R\_99**

**ART 61XB  
INTERMEDIATE LAPIDARY (EI)**

0 Unit; 1 hour lecture; 2 hours lab

*Recommended Preparation:* ART 61XA

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.

**R\_99**

### **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.

**R\_99**

### **ART 71X INTERMEDIATE SCULPTURE (EI)**

*0 Unit; 0.5 hour lecture; 1 hour lab*

*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.

**R\_99**

### **ART 80X BEGINNING SKETCHING (EI)**

*0 Unit; 0.5 hour lecture; 1 hour lab*

*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.

**R\_99**

### **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.

**R\_99**

### **ART 85X BEGINNING LIFE DRAWING (EI)**

*0 Unit; 0.5 hour lecture; 1 hour lab*

*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.

**R\_99**

## **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.

**R\_99**

## **Emeritus Computer and Information Management**

### **CIM 1X LIFE AND TECHNOLOGY INTEGRATION FOR OLDER ADULTS (EI)**

*0 Unit; 1 hour lecture; 1 hour lab*

Designed for the older adult, this class introduces students to current and emerging technologies for the purpose of creating ease, efficiency, and comfort in the completion of daily tasks through the integration of technology into life. Older adults learn about internet use, desktop and laptop computers, tablets, smart cell phones, apps, and other emerging technologies. Students will develop abilities to critically assess current and emerging technologies and how to integrate those into their lives to meet their individual needs.

**R\_99**

## **Emeritus English**

### **ENG 3X INTRODUCTION TO CREATIVE WRITING (EI)**

*0 Unit; 1.5 hours lecture*

*0 Unit; 3 hours lecture*

Explores the basic elements of writing fiction and non-fiction including writing techniques, research and manuscript development. Course focuses on the tools and skills necessary to grow as a writer.

**R\_99**

### **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.

**R\_99**

### **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.

**R\_99**

### **ENG 30X LITERATURE AND LIFE (EI)**

*0 Unit; 2 hours lecture*

Designed for the older adult, this survey course introduces students to works of prose, essays, poetry, drama, fiction, and non-fiction to encourage the study, interpretation, and articulation of the common human experience found within world literature. Selected works will be chosen from varying cultures and languages. Topics covered may include: religious history, social

justice, colonization, cultural identity, identity development, alienation, gender roles, race, family life, and social class. Older adult students will analyze selected literary works and compare and contrast cultural, political, philosophical, and humanistic themes in order to promote active citizenship and individual responsibility in a global context.

**R\_99**

### **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.

**R\_99**

### **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**

## **Emeritus Fashion**

### **EFSH 501 WEARABLE ART (EI)**

*0 Unit; 0.5 hour lecture; 1 hour lab*

Design and construct a garment or accessory incorporating techniques of surface design, bobbin work, fabric manipulation, embellishment and dimensional texture. Primarily for the older adult.

**R\_99**

**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**

**FASH 124X  
WEARABLE ART (EI)**

*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 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**

**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; 0.5 hour lecture; 0.5 hour lab*

*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 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; 0.5 hour lecture; 0.5 hour lab*

*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 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 Judeo-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**

## 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.

**R\_99**

### **PHOT 41X DIGITAL SHOW PRESENTATIONS - INTERMEDIATE (EI)**

*0 Unit; 1 hour lecture; 2 hours lab*

*Recommended Preparation: PHOT 40X*

Covers the intermediate production of digital visual and audio presentations. Includes digital photography, downloading music, scriptwriting, video, narration, transitions and special effects using computer software to construct digital presentations.

**R\_99**

### **PHOT 50XA BEGINNING DIGITAL PHOTOGRAPHY (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**

### **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*

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 lip-reading 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)***0 Unit; 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, reading passages with increased understanding, and increasing focus on creative and academic writing tasks.

**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**

#### **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**

### Adult Education with Disabilities

#### **AEWD 771T MOBILITY SKILLS**

*0 Unit; 9 hours lecture*

A class designed for students with disabilities to enhance independence by introducing safe practices and knowledge for using public transportation.

**R\_99**

#### **AEWD 772T INDEPENDENT LIVING SKILLS**

*0 Unit; 9 hours lecture*

The course is designed for students who are working toward independent living situations and future employment, with supervised mobility in the community. The course addresses skills and competencies relevant to those wishing to live and work more independently. Instruction is provided both in the community and in the classroom. The college campus is also utilized.

**R\_99**

#### **AEWD 773T JOB SKILLS**

*0 Unit; 9 hours lecture*

An educational program designed to assist adults with developmental and learning disabilities achieve their potential as independent members of the community. The course specifically seeks to support students identify vocational goals, develop requisite job search skills, and acquire the necessary social skills to successfully navigate the workplace. Lecture and field trips are combined to provide the student with a comprehensive and meaningful educational experience.

**R\_99**

#### **AEWD 774T SELF ADVOCACY SKILLS**

*0 Unit; 3 hours lecture*

This course is designed for students with developmental and/or learning disabilities. Students will identify their strengths and weaknesses. They will learn about their disability and their abilities. Students will define realistic goals, objectives and the skills needed to reach goals, communicate

in a respectful and responsible way, locate advocacy support, and learn rights and laws that pertain to people with disabilities.

**R\_99**

**AEWD 775T  
COMPUTER SKILLS LAB**

*0 Unit; 1 hour lab*

Designed for students with disabilities to provide instruction in computer operation, word processing, social media, and the use of adaptive equipment.

**R\_99**

**AEWD 781T  
PERSONAL SAFETY**

*0 Unit; 3 hours lecture*

This course is designed to introduce students with developmental disabilities to personal safety awareness. Students with disabilities will be presented with proactive steps to take to avoid dangerous situations in the community and at home. Students with disabilities will also be presented with basic techniques for self-defense and first aid.

**R\_99**

**AEWD 782T  
PERSONAL BUDGETING AND  
BANKING**

*0 Unit; 3 hours lecture*

This class is designed for adults with developmental disabilities to provide students with disabilities with money management skills for employed students living in their own apartment. This is an introductory class that teaches banking and budgeting vocabulary and step by step on how to open and manage a checking account as well as creating personal budgets.

**R\_99**

**AEWD 783T  
COMMUNICATION IN THE  
WORKPLACE**

*0 Unit; 3 hours lecture*

A class designed for students with developmental or learning disabilities who want to learn how to improve their communication skills in relationship to employment. This course will include activities to enhance written and verbal skills.

**R\_99**

**AEWD 784T  
CRITICAL THINKING SKILLS**

*0 Unit; 3 hours lecture*

Designed to assist adults with disabilities in acquiring or improving critical thinking skills necessary to function independently in a variety of activities, situations, and environments. Emphasis on problem-solving and decision making through understanding and evaluating situations, utilizing knowledge of cause and effect relationships, exploring options, and planning and implementing strategies.

**R\_99**

## Administration and Faculty

### District Administrators

#### **Burke, Kathleen (2018)**

*Chancellor*

B.A., B.A., University of California, Irvine  
M.A., California State University, Northridge  
Ed.D., Pepperdine University

#### **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

#### **Gabel, Anne-Marie (2017)**

*Vice Chancellor, Business Services*

B.A., California State University, Fullerton  
M.Ed., University of La Verne, California

#### **Vyskocil, Cindy (2017)**

*Vice Chancellor, Human Resources*

B.S., B.A., Arizona State University  
M.A., California State University, Fullerton  
Ed.D., University of California, Irvine

### 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*

B.A., M.A., Ph.D., 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

#### **Buyse, Jim (2018)**

*Interim President*

B.S., M.A.S., Ph.D., University of Illinois

#### **Clauss, Dan (2017)**

*Dean of Kinesiology and Athletics/Athletics Director*

B.S., Southeast Missouri State University  
M.Ed., Western Carolina University

#### **d'Arcy, Kim (2008)**

*Acting Director, Learning Assistance*

B.A., University of Arizona  
PsyD., Argosy University

#### **Dominguez, Israel (2015)**

*Director, Economic & Workforce Development*

B.S., California Polytechnic State University, San Luis Obispo  
M.B.A., University of La Verne

#### **Feldhus, Karima (2005)**

*Assistant Vice President*

B.A., University of Algiers  
M.A., Ph.D., University of Kansas

#### **Gravis, Esther (2005)**

*Assistant Dean, Health Sciences and Human Services*

B.S.N., M.S.N., University of Phoenix

#### **Guy, Georgina (2008)**

*Dean, Transfer, Career and Special Programs*

B.A., M.A., California State University, Dominguez Hills  
M.S., California State University, Fullerton  
M.A., PsyD., Alliant University

#### **Higdon, Jo Ann (2018)**

*Interim Vice President for Administrative Services*

B.S., St. Louis University  
M.P.A., California State University, San Bernardino

#### **Hinkle, Christina (2011)**

*Interim Dean, Social and Behavioral Sciences*

B.A., University of California, Los Angeles  
M.A., Northeastern University

#### **Irwin, Kari (2017)**

*Assistant Dean of Career and Technical Education*

B.S., California State Polytechnic University, Pomona  
M.A., University of Redlands

#### **Jaramillo, John (2015)**

*Dean, Economic & Workforce Development and Business Science*

B.A., College of Notre Dame  
M.B.A., University of Phoenix

#### **McHenry, Bart (2010)**

*Assistant Dean of Community Outreach and Recruitment*

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)**

*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)**

*Assistant Dean of Division/Director of Emeritus Institute*

B.A., George Fox University, Newberg, OR  
M.Ed., Azusa Pacific 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

#### **Vo-Kumamoto, Tram (2018)**

*Vice President for Instruction*

A.A., City College of San Francisco  
B.A., University of California, Berkeley  
M.S., California State University, East Bay

#### **Wynter, Cadence (2012)**

*Dean, Fine Arts and Media Technology*

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  
M.S., University of Southern California  
Ph.D., University of Texas at El Paso

### Alexander, Ariel (2012)

*Associate Professor, Fine Arts and Media Technology*

B.M., Jazz Studies, Indiana University  
M.A., 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  
Ph.D., University of Montana

### Azary, Maryam (1994)

*Professor, Counseling Services*  
B.A., Texas Southern University  
M.S., California State University, Los Angeles  
Psy.D., Alliant International University, San Diego

### Bagwell, Janet (2002)

*Professor, Liberal Arts*  
B.S., Duquesne University  
M.S., California State University, Fullerton

### Barlow, Daniel (2017)

*Assistant Professor, Liberal Arts*  
B.A., University of California, Santa Barbara  
M.A., San Diego State University

### Barnett, Jeffery (2017)

*Assistant Professor, Mathematics, Science, & Engineering*  
B.S., East Tennessee State University  
M.S., University of Tennessee

### Barr, Douglas M. (1991)

*Professor, Counseling Services*  
B.S., M.S., Miami University

### Barrows, Morgan (2002)

*Professor, Advanced Technology and Applied Science*  
B.S., University of California, Davis  
M.S., California State University, Fullerton  
Ph.D., University of California, Irvine

### Bear, Teresa (2011)

*Assistant Professor, Mathematics, Science and Engineering*  
B.S., M.S., University of California, Irvine

### Beckham, Jack (2012)

*Professor, Liberal Arts*  
B.A., California State University, Bakersfield  
M.A., Ph.D., University of California, Riverside

### Bennett, Michael (2008)

*Assistant Professor, Transfer, Career and Special Programs*

B.A., University of California, San Diego  
M.S., California State University, Long Beach

### Billingsley, William J. (2005)

*Professor, Social and Behavioral Sciences*  
B.A., University of North Carolina  
M. A., Ph.D., University of California, Irvine

### Blethen, Mark (2000)

*Professor, Kinesiology and Athletics*  
B.A., Cal Poly, San Luis Obispo  
M.S., University of Delaware

### Boratyniec, Zina (2000)

*Professor, Transfer, Career and Special Programs*  
B.A., University of California, Irvine  
M.S., California State University, Long Beach

### Bowles, Christina (2012)

*Associate Professor, Health Sciences and Human Services*  
B.S.N., California State University, Fullerton  
M.S.N., California State University, Long Beach

### Bowman, Donald (2012)

*Associate Professor, Economic & Workforce Development and Business Science*  
B.S., California State University, Long Beach  
M.B.A., University of California, Irvine

### Braatz, Timothy (1999)

*Professor, Social and Behavioral Sciences*  
B.A., California Lutheran University  
M.A., University of California, Santa Barbara  
Ph.D., Arizona State University

### Brady-Jenner, Julia A (1989)

*Professor, Fine Arts and Media Technology*  
B.A., California State University, Fullerton  
M.A., San Diego State University

### Branch-Stewart, Kim (2010)

*Professor, Health Sciences and Human Services*  
B.S.W., M.S.W., California State University, Los Angeles

### Brei, Todd (2012)

*Associate Professor, Mathematics, Science and Engineering*  
B.A., University of California, Santa Barbara  
M.A., California State University, San Marcos

### Breslin, Ann Marie (2014)

*Assistant Professor, Transfer, Career and Special Programs*  
B.S., M.A., California Polytechnic State University, San Luis Obispo

### Budica, Jessica (2017)

*Assistant Professor, Liberal Arts*  
B.A., M.F.A., California State University, Long Beach

### Caggiano, Jodi (2013)

*Associate Professor, Health Sciences and Human Services*

B.S.N., California State University, Fullerton  
M.S.N., California State University, Dominguez Hills

### Call, Linda (2010)

*Professor, Health Sciences and Human Services*  
B.S.N., University of Florida  
M.S.N., Regis University

### Camelot, Allison (2004)

*Professor, Social and Behavioral Sciences*  
M.A., B.A., California State University, Fullerton

### Carroll, Thomas C., Jr. (1977)

*Professor, Liberal Arts*  
A.B., University of California, Los Angeles  
M.A., Ph.D., University of California, Santa Barbara

### Casey, Hollis (2015)

*Assistant Professor, Counselor (Generalist)*  
B.A., The College of New Jersey, Ewing  
M.S., California State University, Fullerton

### Castellaos, Maria (2017)

*Transfer, Career, and Special Services*  
B.A., California State University, Fullerton  
M.Ed., San Diego State University  
M.S.W., California State University, Long Beach

### Cavazzi, Deidre (2012)

*Associate Professor, Kinesiology and Athletics*  
B.A., M.F.A., University of California, Irvine

### Cesareo, Claire (2000)

*Professor, Social and Behavioral Sciences*  
B.A., University of California, Berkeley  
M.A., Columbia University

### Chang, Sarah (2012)

*Associate Professor, Counseling Services*  
B.A., University of California, Irvine  
M.A., University of San Diego

### Channing, Michael D. (1979)

*Professor, Liberal Arts*  
B.A., University of California, Santa Barbara  
Ph.D., Stanford University

### Choi, Sang (2015)

*Assistant Professor, Mathematics, Science and Engineering*  
B.S., M.Ed., University of British Columbia  
M.S., California State University, Northridge

### Christensen, Sheryl (2015)

*Assistant Professor, Counseling Services*  
B.A., University of Arizona, Tucson  
M.S., California State University, Fullerton

### Chu, Hencelyn (2017)

*Assistant Professor, Health Science & Human Services*  
B.S., Andrews University  
Ph.D., Oregon State University

**Claflin, Christopher (2008)**

*Professor, Advanced Technology and Applied Science*

B.F.A., California State University, Long Beach  
M.B.A., Argosy University

**Cox, Barbara (2008)**

*Professor, Economic & Workforce Development and Business Science*

M.A., University of California, Riverside  
Ph.D., Stanford University

**Crabb, Kerry (2008)**

*Professor, Kinesiology and Athletics*

B.A., California State University, Chico  
M.A., Azusa Pacific University

**Craig, Brandee (2004)**

*Professor, Kinesiology and Athletics*

B.A., San Francisco State University  
M.A., Azusa Pacific University

**Crapo, Stephen (1999)**

*Professor, Kinesiology and Athletics*

B.S., M.S., University of Missouri  
M.S., Azusa Pacific

**Cubbage, April (2009)**

*Professor, Social and Behavioral Sciences*

B.A., University of California, Los Angeles  
M.A., University of California, Riverside

**Damm, Kathryn (2012)**

*Associate Professor, Social and Behavioral Sciences*

B.S./B.A., M.A., Ph.D., University of California, San Diego

**Daniels, Stevie (2012)**

*Associate Professor, Liberal Arts*

B.S., M.A., California State University, Fresno

**Danko, Carolyn (2011)**

*Professor, Health Sciences and Human Services*

B.S., University of California, Davis  
M.S.N., California State University, Dominguez Hills

**DeDonno, Thomas (2005)**

*Professor, Economic & Workforce Development and Business Science*

M.S., B.S., John Carroll University

**DeSaracho, Mariana (1991)**

*Professor, Counseling Services*

B.S., M.A., San Diego State University  
Ed.D., University of Southern California

**Dixon, David (2012)**

*Associate Professor, Mathematics, Science and Engineering*

B.S., Truman State University  
Ph.D., University of California, Berkeley

**Duffy, Michelle (2012)**

*Associate Professor, Liberal Arts*

B.A., California State University, Long Beach  
M.S., Ed.D., California State University, Fullerton

**Duong, Nancy (2016)**

*Assistant Professor, Mathematics, Science and Engineering*

B.S., M.S., University of California, Riverside

**Duquette, Janice L. (1977)**

*Professor, Kinesiology and Athletics*

B.A., Arizona State University  
M.A., San Diego State University

**Engels, Michael (2012)**

*Associate Professor, Counseling Services*

B.A., University of California, San Marcos  
M.A., Webster University

**Enright, Evan (2015)**

*Assistant Professor, Mathematics, Science and Engineering*

B.S., M.S., University of California, Riverside

**Evancoe, Eugene J. (1991)**

*Professor, Advanced Technology and Applied Science*

B.S.E.E., University of Illinois  
M.S.E.E., University of California, Berkeley

**Evans-Wallin, Patricia K. (1990)**

*Professor, Mathematics, Science and Engineering*

B.A., M.S., University of Southern California

**Even, Ryan (2011)**

*Professor, Fine Arts and Media Technology*

B.A., San Diego State University  
M.F.A., University of California, Santa Barbara

**Farnsworth, Robert (2008)**

*Professor, Advanced Technology and Applied Science*

B.A., Colorado State University  
M.A., B.A., University of Idaho

**Farthing, Scott (2005)**

*Professor, Fine Arts and Media Technology*

B. M., Friends University, Wichita  
M. M., University of Missouri, Kansas City  
D. M. A., University of Missouri, Kansas City

**Fier, Scott R. (1993)**

*Professor, Mathematics, Science and Engineering*

B.A., B.S., M.S., University of California, Irvine

**Fisher, Katherine (2005)**

*Professor, Liberal Arts*

B.A., University of San Diego  
M.S., M.F.A., Chapman University

**Fox, Lindsay (1999)**

*Professor, Advanced Technology and Applied Science*

B.F.A., M.A.T., Rhode Island School of Design

**Francisco, David (2001)**

*Professor, Counseling Services*

B.A., University of San Diego  
M.A., Westminster Theological Seminary  
M.S., University of La Verne

**Fredrickson, Scott (2013)**

*Associate Professor, Economic & Workforce Development and Business Science*

B.A., California State University, Fullerton  
M.A., Pepperdine University, Malibu  
Ph.D., University of Northern Colorado

**Friedrich, Monica (2012)**

*Associate Professor, Mathematics, Science and Engineering*

B.S., Ph.D., University of California, Irvine

**Garcia, Renee (2005)**

*Professor, Social and Behavioral Sciences*

B.A., University of California, Berkeley  
M.A., University of Bordeaux

**Gee, Carolyn (2008)**

*Assistant Professor, Social and Behavioral Sciences*

B.A., M.A., University of California, San Diego

**Gensler, Howard (2003)**

*Professor, Social and Behavioral Sciences*

B.A., University of California, Irvine  
J.D., University of California, Berkeley  
Ph.D., University of California, Irvine

**Ghanbarpour, Christina (2014)**

*Assistant Professor, Social and Behavioral Sciences*

B.A., Columbia University, New York  
M.A., University of Chicago, Chicago  
Ph.D., University of California, Irvine

**Gilbert, Annie (2016)**

*Assistant Professor, Community Education, Emeritus, K-12 Partnerships*

B.A., Université du Québec à Montréal  
M.A., McGill University, Montreal

**Gilman, Bruce (2008)**

*Professor, Liberal Arts*

M.A., Ph.D., University of Massachusetts

**Gleed, Patricia (2016)**

*Assistant Professor, Health Sciences and Human Services*

B.S.N., West Coast University

**Gliadkovsky, Kirill (2011)**

*Professor, Fine Arts and Media Technology*

M.M., D.M.A., University of Southern California

**Gonzalez, Frank (2008)**

*Professor, Mathematics, Sciences and Engineering*

B.A., M.A., Western Washington University

**Goulding, Carrie (2013)**

*Associate Professor, Liberal Arts*

B.A., Brigham Young University, Provo, Utah  
M.A., J.D., Chapman University, Orange

**Gravis, Esther (2012)**

*Associate Professor, Health Sciences and Human Services*

B.S.N., M.S.N., University of Phoenix

**Grihalva, Lawrence (2011)**

*Professor, Health Sciences and Human Services*

B.A., University of California, Los Angeles  
J.D., Boston College

**Ground, M. Andy (2009)**

*Professor, Kinesiology and Athletics*

B.A., University of Hawaii at Hilo  
M.Ed., Azusa Pacific University

**Gustafson, Michelle (2015)**

*Assistant Professor, Counseling Services*  
B.A., University of California, Santa Cruz  
M.S.W., Columbia University, New York

**Haas, Sharon (1998)**

*Assistant Professor, Kinesiology and Athletics*  
B.A., Mills College, Oakland  
M.Ed., Azusa Pacific

**Haeri, Mitchell B. (1996)**

*Professor, Mathematics, Science and Engineering*  
B.S., University of California, Irvine  
M.S., Ph.D., University of California, Los Angeles

**Haggerty, A. Lee (1981)**

*Professor, Social and Behavioral Sciences*  
A.B., A.M., Stanford University

**Haight, Laura (2016)**

*Assistant Professor, Fine Arts and Media Technology*  
B.A., Orange Coast College  
B.F.A., California State University, Fullerton  
M.F.A., Temple University, Philadelphia

**Haley, Edgar (2013)**

*Associate Professor, Mathematics, Science and Engineering*  
B.A., University of California, San Diego  
M.S., University of California, Riverside

**Hardick, Randolph (2004)**

*Professor, Health Sciences and Human Services*  
B.A., University of Sioux Falls

**Hayter, Catherine (2014)**

*Assistant Professor, Liberal Arts*  
B.A., University of California, Los Angeles  
M.A., University of California, San Diego  
M.F.A., Bennington College, Vermont

**Hedgecock, Jennifer (2008)**

*Professor, Liberal Arts*  
A.A., Orange Coast College  
B.A., M.A., California State University, Sacramento  
Ph.D., Michigan State University

**Hernandez-Bravo, Carmenmara (1990)**

*Professor, Liberal Arts*  
B.A., M.S., University of California, Irvine

**Herron, Alinde (2005)**

*Professor, Advanced Technology and Applied Science*  
B.S., California Polytechnic State University, San Luis Obispo  
M.A., San Francisco State University

**Higginson, Jennifer (2002)**

*Professor, Kinesiology and Athletics*  
B.S., San Diego State University  
M.Ed., Azusa Pacific University

**Hoida-Mulholland, Bridget (2016)**

*Assistant Professor, Liberal Arts*  
B.A., University of California, Berkeley  
M.A., San Francisco State University  
M.A., Ph.D., University of Southern California

**Hoggatt, Michael (2009)**

*Professor, Transfer, Career and Special Programs*  
B.A., Point Loma Nazareth College  
M.P.A., National University  
M.S., California State University, Long Beach

**Hole, Jason (2014)**

*Assistant Professor, Mathematics, Science and Engineering*  
B.S., Santa Clara University, Santa Clara  
M.S., California State University, Los Angeles  
Ph.D., University of California, Davis

**Hoolihan, Lori (2016)**

*Assistant Professor, Advanced Technology and Applied Science*  
B.S., Ph.D., University of California, Berkeley

**Horlings, Jane E. (1990)**

*Professor, Mathematics, Science and Engineering*  
B.S., University of Nebraska  
Ph.D., University of California, Davis

**Howlett, Scott (1999)**

*Professor, Social and Behavioral Sciences*  
B.A., B.S., M.A., California State Fullerton  
M.A., Ph.D., University of California, Irvine

**Huggins, Barbara (2009)**

*Professor, Health Sciences and Human Services*  
B.S., State University of New York, Binghamton  
M.N., Louisiana State University

**Hunt, Matthew (2000)**

*Professor, Liberal Arts*  
B.A., California State University, Fresno  
M.A., Ph.D., University of Southern California

**Huntley, Anthony C. (1991)**

*Professor, Mathematics, Science and Engineering*  
B.S., B.A., University of California, Irvine  
M.A., California State University, Fullerton  
Ph.D., University of California, Santa Cruz

**Ibbotson, Jill (2017)**

*Assistant Professor, Community Education, Emeritus Institute, K-12 Partnership*  
B.S., University of Connecticut

**Ininns, Elizabeth (1999)**

*Professor, Mathematics, Science and Engineering*  
B.S., M.S., University of California, Irvine

**Inlow, Lisa (2010)**

*Professor, Advanced Technology and Applied Science*  
A.O.S., California Culinary Academy

**Jacobsen, Karen (1999)**

*Professor, Kinesiology and Athletics*  
B.S., University of Michigan  
M. Ed., Azusa Pacific University

**Jennison, Elizabeth (2016)**

*Assistant Professor, Economic & Workforce Development and Business Science*  
B.S., M.B.A., Loyola Marymount University

**Kiernan, Maria (2008)**

*Assistant Professor, Emeritus Institute*  
A.A., Orange Coast College  
B.F.A., M.A., California State University, Fullerton

**Kihyet, Constance M. (1988)**

*Professor, Liberal Arts*  
B.A., M.S., University of Southern Mississippi  
Ph.D., Florida State University

**Knapp, Rebecca (2011)**

*Professor, Economic & Workforce Development and Business Science*  
B.A., University of California, Irvine  
M.B.A., Pepperdine University

**Konishi, Hiromasa (2005)**

*Professor, Fine Arts and Media Technology*  
B.A., Keio University, Tokyo, Japan  
M.F.A., University of Texas, Austin

**Korper, Steve (2002)**

*Professor, Economic & Workforce Development and Business Science*  
B.S., DeVry Institute of Technology  
M.S., Ph.D., Columbia State University

**Kouritas, Georgios (2012)**

*Associate Professor, Fine Arts and Media Technology*  
B.M., Birmingham Conservatoire, United Kingdom  
M.M., Ball State University, Indiana  
M.M., Cincinnati University, College - Conservatory of Music

**Kucharski, Phillis (2001)**

*Professor, Health Sciences and Human Services*  
B.S.N., State University of New York  
M.S.N., Wagner College

**Lam, Chin (2009)**

*Professor, Liberal Arts*  
B.A., M.A., University of California, Los Angeles

**Langrell, Jenny (2005)**

*Professor, Online Education & Learning Resources*  
B. S., Southern Illinois University - Carbondale  
M.A., San Jose State University

**Lawson, Anne (2013)**

*Associate Professor, Health Sciences and Human Services*  
B.S.N., M.S.N., California State University, Fullerton

**Lee, Kenneth (2012)**

*Associate Professor, Advanced Technology and Applied Science*  
B.S., Seoul Nation University  
M.S., Cornell University

**Leppien-Christensen, J. Kristopher (2005)**

*Professor, Social and Behavioral Sciences*  
B.A., M.A., California State University, San Marcos  
Ph.D., Saybrook Graduate School & Research Center

**Levin, Patricia L. (1987)**

*Professor, Fine Arts and Media Technology*  
B.A., University of California, Los Angeles  
M.A., University of Southern California  
Ph.D., University of California, Irvine



**Llorente, Alex J. (1984)**

*Professor, Economic & Workforce Development and Business Science*

B.A., M.A., University of South Florida  
M.B.A., University of Houston  
J.D., Western State University

**Long, Michael (2007)**

*Professor, Counseling Services*

B.A., California State University, Long Beach  
M.A., California State University, Dominguez Hills

**Lovett, Margot (1997)**

*Professor, Social and Behavioral Sciences*

B.A., Montclair State College, N.J.  
M.A. Ph.D., Columbia University

**Luke, Gary A. (1989)**

*Professor, Liberal Arts*

B.A., M.A., University of California, Santa Barbara

**Lunetto, Kathleen (2015)**

*Assistant Professor, Advanced Technology and Applied Science*

A.A., Culinary Institute of America, Hyde Park  
B.A., New England Culinary Institute, Montpelier

**Luque, Jonathan (2015)**

*Assistant Professor, Mathematics, Science and Engineering*

B.S., M.S., University of California, Irvine

**Lynch, Ardith (2008)**

*Professor, Transfer, Career and Special Programs*

B.A., Holy Family College  
M.S., California State University, Hayward

**MacMillan, Sharon (1977)**

*Professor, Social and Behavioral Sciences*

B.A., M.A., Central Missouri State University  
Ph.D., University of Southern California

**Magrann, Tracey (2017)**

*Assistant Professor, Health Science & Human Services*

B.S., California State University, Long Beach  
Ph.D., Loma Linda University  
D.P.M., California College of Podiatric Medicine

**Major, Nicole (2015)**

*Assistant Professor, Social and Behavioral Sciences*

B.A., University of California, Los Angeles  
M.A., California State University, Fullerton

**Mamoon, Safiah (2013)**

*Associate Professor, Health Sciences and Human Services*

A.S., Santa Barbara City College  
B.S., Chandaben Patel Homeopathic Medical College, Mumbai, India

**Mayenzet, Maria (2011)**

*Professor, Fine Arts and Media Technology*

B.A., University of California, Irvine  
M.F.A., California State University, Long Beach

**McCartney, Theodore (2005)**

*Professor, Kinesiology and Athletics*

B.A., University of California, Riverside  
M.Ed., Azusa Pacific University

**McClaine, Serena (2013)**

*Associate Professor, Health Sciences and Human Services*

B.S.N., Southern Illinois University  
M.S.N., California State University, Long Beach

**McCleave, Sumaya (2004)**

*Professor, Mathematics, Science and Engineering*

B.A., Boston College  
M.S., University of California, Irvine

**McElroy, G. Mark (1999)**

*Professor, Kinesiology and Athletics*

B.A., California State University, Chico  
M.A., United States International University  
M.Ed., Azusa Pacific  
Ed.D., Brigham Young University

**McFann, Kent (2005)**

*Professor, Fine Arts and Media Technology*

B.F.A., California Institute of the Arts  
M.F.A., State University of New York, Purchase

**McGinley, Patricia (2011)**

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B.S.N., University of Illinois, Chicago  
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**McGirr, Julie (2015)**

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M.S., California State University, Fullerton

**McGroarty, Diane (2005)**

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B.A., California State University, Long Beach

**McGuire, William (2012)**

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B.F.A., New York University, Acting  
M.F.A., Yale University, Acting

**McKeachie, J. Ryan (2013)**

*Associate Professor, Mathematics, Science and Engineering*

B.S., Albion College, Michigan  
M.S., Ph.D., University of California, Irvine

**Medling, Jane (2016)**

*Assistant Professor, Economic & Workforce Development and Business Science*

B.A., Stanford University  
M.B.A., University of Southern California

**Meshkin, Nahid (2016)**

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B.S., University of Phoenix  
M.S.N., Azusa Pacific University

**Meyer, Clifford G. (2004)**

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B.A., M.A., California State University, Long Beach

**Meyer-Canales, Katherine (2001)**

*Professor, Mathematics, Science and Engineering*

B.S., George Fox University  
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**Miller-White, Sherry (1988)**

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B.A., Tougaloo College  
M.A., California State University, Long Beach

**Milovich, June M. (2001)**

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M.S., California State University, Fullerton  
Ph.D., Claremont Graduate University

**Moore, Larry (1999)**

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**Morris, Kalon (2002)**

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B.A., California State University, San Bernardino  
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**Mularski, Jedrek (2011)**

*Professor, Social and Behavioral Sciences*

B.A., Williams College  
M.Ed., Harvard University

**Murray, Pete (2015)**

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B.A., Cleveland State University, Cleveland  
Ph.D., University of Albany, SUNY, Albany

**Myers, Charles (2002)**

*Professor, Fine Arts and Media Technology*

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**Myhren, Brett (2013)**

*Associate Professor, Liberal Arts*

B.A., Loyola Marymount University, Los Angeles  
M.A., M.F.A., McNeese State University, Lake Charles, Louisiana  
M.A., Ph.D., University of Southern California, Los Angeles

**Nadeau, Bouchra (2012)**

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B.A., San Diego University  
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**Nelson, Candy (2011)**

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**Nelson, Terrence (2009)**

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M.Ed., University of California, Los Angeles

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**Niccola, Loretta (1999)**

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**Nin, Orlantha (2012)**

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**Noroozi, Zahra (2014)**

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**Obermeyer, Veronica (2008)**

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B.F.A., Laguna College of Art & Design  
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**O'Buchon, Janine (2004)**

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**Ochi, Shellie (2012)**

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**O'Leary, Thomas, (2010)**

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**O'Rourke, Shawn (2013)**

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**Osborn, Sean (2014)**

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Stanislaus

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**Passarelli, Bruno (2013)**

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Long Beach

**Peck, Paris (2017)**

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B.S., California Polytechnic University, Pomona  
M.A., National University

**Penland, Barbara A. (1988)**

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B.S., University of Redlands  
M.A., Webster University

**Perez, Lawrence (1999)**

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**Pires, Marcelo (2010)**

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**Plascencia-Carrizosa, Brenda (2014)**

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B.A., M.S., California State University, Fullerton

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M.A., Claremont Graduate University, Claremont

**Pryor, Joshua (2008)**

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M.F.A., San Francisco State University  
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**Quade, Joyce (1999)**

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**Rangel, Efen (2014)**

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**Renault, Irene (2005)**

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M.S., The University of Chicago

**Shaffer, Gina Victoria (2010)**

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Psy.D., Alliant International University

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**Smith, Basil (2009)**

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**Stephens, Blake (2008)**

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**Tamara, Lydia (2012)**

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**Tracy, Jacob (2014)**

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M.S., University of Arizona, Tucson

**Tran, Chau Aimee (2015)**

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M.S., University of La Verne

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**Trani, Nicholas (2008)**

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**Tuominen-Lenny, Katherine (2017)**

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M.S.W., California State University, Long Beach

**Turner, Pamela (2000)**

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**Valdez, Deanna (2011)**

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**Ventura, Janet (1999)**

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Ph.D., California Schools of Professional Psychology, Fresno

**Vogel, Erica (2014)**

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**Vogel, Jeff (2012)**

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Ed.D., Liberty University

**Walsh, Daniel (1999)**

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**Wegenek, Amira (2004)**

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**Welc, S. Martin (1989)**

*Professor, Economic & Workforce Development and Business Science*

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**Weston, Norman J. (1989)**

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D.M., Northwestern University

**Westphal, Karla (2001)**

*Professor, Mathematics, Science and Engineering*

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M.S., Loyola University

**Williams, Jake (2014)**

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**White, Christina (2009)**

*Professor, Mathematics, Science and Engineering*

B.S., Cal Poly San Luis Obispo  
Ph.D., University of California, Santa Barbara

**White, Richard (1998)***Professor, Fine Arts and Media Technology*

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M.F.A., New York State College of Ceramics,  
Alfred University**White-Alcover, Susan (2016)***Assistant Professor, Health Sciences and Human  
Services*

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**Williams, Kolin (2011)***Professor, Transfer, Career and Special Programs*

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**Wolff, Michele (1999)***Professor, Health Sciences and Human Services*

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Dominguez Hills**Yassine, Amina (2010)***Professor, Liberal Arts*

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**Zach, Alicia (2016)***Assistant Professor, Online Education & Learning  
Resources*

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**Ziehm, Carol (1999)***Professor, Liberal Arts*

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**Zimmerman, Ray (2009)***Associate Professor, Liberal Arts*

B.A., University of Texas, Dallas

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**Zoval, Jim (2008)***Professor, Mathematics, Science and Engineering*

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## Emeriti Faculty and Administrators

**Abrams, Karl J. (1989-2012)**

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**Adams, Howard (1975-2009)**

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**Agnew, Priscilla J. (1977-2011)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**Alford, JoAnn (1985-2011)**

*Professor Emeritus, Counseling Services and Special Programs*

**Allbright, Aaron (1990-2004)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**Allen, John F. (1982-2004)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Altman, Cheryl (1989-2011)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**Anderson, Dona A. (1968-1994)**

*Professor Emeritus, Fine Arts and Media Technology*

**Babusek, Alda O. (1979-2011)**

*Professor Emeritus, Health Sciences and Human Services*

**Baker, Gertrude Baker (1970-1975)**

*Director Emeritus, Nursing Education*

**Baker, Wynoah Willis (1984-2004)**

*Assistant Dean Emeritus, Student Services and Financial Aid*

**Baltierra, Juanita L. (1985-2014)**

*Professor Emeritus, Transfer, Career and Special Programs*

**Bander, Carol J. (1977-2016)**

*Professor Emeritus, Liberal Arts*

**Barr, Pamela J. (1992-2017)**

*Professor Emeritus, Counseling Services*

**Bartlett, Ryburn D. (1969-1991)**

*Dean Emeritus, Mathematics, Science and Engineering*

**Becktold, Lynda L. (1982-2004)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**Bell, Ronald D. (1979-2004)**

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**Belmont, Gita (1990-2006)**

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**Belyea, Barbara L. (1985-2011)**

*Professor Emeritus, Health Sciences and Human Services*

**Bennett, Joann M. (1969-1993)**

*Professor Emeritus, Fine Arts*

**Bergthold, Frederick M., Jr. (1980-1997)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Berns, Roberta M. (1977-1999)**

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**Bessette, Nancy C. (1975-2011)**

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**Bliss, Robert W. (1977-2004)**

*Professor Emeritus, Business Science*

**Bollingmo, James E. (1973-1993)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Borella, Peter E. (1981-2014)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Bornemann, Robert W. (1983-2010)**

*Professor Emeritus, Fine Arts*

**Bosanko, Robert G. (1974-1983)**

*President Emeritus*

**Bremer, Fred H. (1967-1987)**

*President Emeritus*

**Brennan, Paul E. (1968-1994)**

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**Brenner, Cristy L. (1994-2017)**

*Professor Emeritus, Social and Behavioral Sciences*

**Brewer, Christina E. (1974-2004)**

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**Brewer, Everett L. (1973-1995)**

*Vice President for Instruction Emeritus*

**Brierre-Shambrook, Maud B. (1982-2009)**

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**Brightbill, Alvin J. (1975-2004)**

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**Brummel, William C. (1980-2008)**

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**Bruno, Brenda J. (1986-2011)**

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**Bullock, Dixie Lee (1976-2004)**

*President Emeritus*

**Busché, Donald L. (1977-2002)**

*Vice President for Instruction Emeritus*

**Cabeen, Russell F. (1975-1994)**

*Professor Emeritus, Social and Behavioral Sciences*

**Cain, Duane O. (1971-1999)**

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**Carroll, Christina (1981-2011)**

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**Carter, Shirley (1977-2002)**

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**Cederquist, John C. (1975-2008)**

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**Chai, Nakyong T. (1977-1998)**

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**Chin, Lem (1987-2017)**

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**Christensen, Carl H. (1970-1999)**

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**Christensen, Grace L. (1968-1993)**

*Professor Emeritus, Liberal Arts*

**Clancy, John P. (1969-1990)**

*Professor Emeritus, Social Sciences*

**Clark, Jeffrey M. (1989-2012)**

*Professor Emeritus, Liberal Arts*

**Cline, Claudia D. (1989-2011)**

*Professor Emeritus, Emeritus Institute*

**Cobos, Ana Maria (1992-2017)**

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**Cogbill, Bonnie J. (1968-1996)**

*Professor Emeritus, Fine Arts*

**Cohen, Robert I. (1979-2004)**

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**Cosgrove, Robert W. (1981-2017)**

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**Courtright, Theresa E. (1973-1985)**

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**Cox, Anne (1978-2017)**

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**Crary, Paul D. (1986-2010)**

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**Croisette, Arthur F. (1969-1987)**

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**Darr, Flip (1973-1999)**

Professor Emeritus, PE and Athletics

**De Agüero, Walter G. (1984-2011)**

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**Dellota, Lois M. (1975-1998)**

Professor Emeritus, Student Health Services

**Denney, George T. (1969-1999)**

Professor Emeritus, Liberal Arts

**DiLeo, David L. (1993-2014)**

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**Doty, Robert W. (1969-1984)**

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**Edwards, Diane J. (1978-2004)**

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**Elkins, Claire B. (1977-2009)**

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**Eschbach, Delphine M. (1972-1988)**

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**Espinosa, Peter J. (1980-2011)**

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**Evans, E. Lloyd (1985-1999)**

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**Evans, Nancy (1989-2016)**

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**Evans, Thomas D. (1981-2004)**

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**Fennell, Patrick J. (1979-2011)**

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**Ferguson, Robert W. (1970-2011)**

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**Fisher, Schorre' L. (1989-2004)**

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**Flood, John J. (1968-1988)**

Dean of Students Emeritus

**Forouzesh, Jennifer A. (1989-2017)**

Professor Emeritus, Health Sciences and Human Services

**Fowler, Carol N. (1971-1993)**

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**Friede, Petrina H. (1979-2011)**

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**Friedemann, Harold (1970-1992)**

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**Fritsen, Jan (1988-2000)**

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**Froehlich, Robert A. (1977-2006)**

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**Gaines, Tom J. (1969-1993)**

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**Garant, Dorothy (1990-2017)**

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**Garcia, Anthony M. (1977-2004)**

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**Gershman, Barbara A. (1975-2004)**

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**Giguere, Virginia L. (1980-2011)**

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**Gillay, Carolyn Z. (1984-2011)**

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**Gleason, Linda (2004-2017)**

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**Goldberg, Patrizia (1987-2014)**

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**Guizar, Mercedes (1999-2004)**

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**Hada, Dennis S. (1986-2010)**

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**Handa, Stephen G. (1988-2017)**

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**Harrison, Charles R. (1976-2008)**

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**Hartman, B. George (1968-1999)**

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**Hassouna, Fred (1975-1983)**

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**Hastings, Ronald J. (1980-2010)**

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**Hayes, Annette (1975-1989)**

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**Heffernan, William A. (1973-2008)**

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**Henry, V. Robert (1990-2017)**

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**Hill III, Merton E. (2005-2014)**

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**Hodge, Kathleen O'C. (1975-2004)**

Vice Chancellor Emeritus, Educational Services

**Hodge, Vern M. (1976-2004)**

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**Hodges, Jack A. (1989-2011)**

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**Hoffman, Robert C. (1969-1994)**

Professor Emeritus, Social Science

**Holston, William E. (1968-1998)**

Professor Emeritus, Social and Behavioral Sciences

**Hooper, Gail (1999-2008)**

Professor Emeritus, Counseling Services and Special Programs

**Hopkins, Loma J. (1984-2016)**

Professor Emeritus, Transfer, Career and Special Programs

**Horvath, Wayne J. (1968-1999)**

Professor Emeritus, Fine Arts, Kinesiology and Athletics

**Huang, S. Margaret (1976-2012)**

Professor Emeritus, Health Sciences and Human Services

**Iacino-Tan, Dorina (1991-2009)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Jacobs, Paula L. (1981-2017)**

*Professor Emeritus, Counseling Services*

**Jacobsen, Robert E. (1971-2001)**

*Professor Emeritus, Counseling Services and Special Programs*

**Jay, William O. (1974-1999)**

*Professor Emeritus, Math Science and Engineering*

**Johns, A. Herbert (1975-1994)**

*Professor Emeritus, Business Science*

**Johnson, Zane O. (1975-2011)**

*Professor Emeritus, Advanced Technology and Applied Science*

**Jones, Lawrence R. (1977-2017)**

*Professor Emeritus, Fine Arts and Media Technology*

**Kelly, William L. (1969-1995)**

*Vice Chancellor Emeritus, Administrative Services*

**Kero, Reynold J. (1968-1993)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Kessler, Nancy M. (1977-1996)**

*Professor Emeritus, Advanced Technology and Applied Science*

**Kim, Yong H. (1977-2004)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Kirk, William B. (1977-1997)**

*Professor Emeritus, Fine Arts and Communications*

**Kirsch, Alfred F. (1979-2002)**

*Professor Emeritus, Advanced Technology and Applied Science*

**Kish, Andrew W. (1968-1995)**

*Professor Emeritus, Social and Behavioral Sciences*

**Kopfstein, Robert W. (1980-2004)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**Kosmides, Martha Sue (1990-2002)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**Kurlak, George M. (1969-1997)**

*Professor Emeritus, Counseling Services and Special Programs*

**Lane, James A. (1974-1998)**

*Professor Emeritus, Fine Arts*

**Lange, Grace L. (1968-1987)**

*Professor Emeritus, Liberal Arts*

**Lagatta, Jill R. (2005-2011)**

*Associate Professor Emeritus, Liberal Arts and Learning Resources*

**Lebauer, Roni (1990-2017)**

*Professor Emeritus, Liberal Arts*

**Leighton, Ronald S. (1977-2010)**

*Professor Emeritus, Fine Arts*

**LeSourd, Peter (1989-2000)**

*Professor Emeritus, Business Science*

**Lindblad, James G. (1969-1996)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Littell, R. Phil (1969-1999)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Logan, Stephen W. (1984-1999)**

*Professor Emeritus, Business Science*

**Lowe, Lesley (2005-2017)**

*Professor Emeritus, Emeritus Institute*

**Marcou, Howard H. (1968-1985)**

*Professor Emeritus, Business Science*

**Mazique, Jeanne M. (1990-2011)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**McCullough, Richard D. (1971-2008)**

*President Emeritus*

**McCullough, Vincent D. (1969-1998)**

*Professor Emeritus, Kinesiology and Athletics*

**McDonald, James T. (1971-1993)**

*Professor Emeritus, Social and Behavioral Sciences*

**McFarland, William L. (1983-2003)**

*Professor Emeritus, Advanced Technology and Applied Science*

**McGrew, W. Leona (1973-1987)**

*Assistant Dean Emeritus, Continuing Education and Community Service*

**McLendon, Curtis L. (1977-2010)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Messner, Carolann M. (1977-2006)**

*Professor Emeritus, Fine Arts*

**Meyer, Thomas S. (1971-2007)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Meyn, Virginia M. (1986-1998)**

*Professor Emeritus, Liberal Arts*

**Mikolajczak, Michaelyn L. (1980-2011)**

*Professor Emeritus, Counseling Services and Special Programs*

**Minch, John A. (1972-1994)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Miraglia, Terence J. (1969-2007)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Mitchell, Melvin E. (1968-1992)**

*Professor Emeritus, Social and Behavioral Sciences*

**Moon, Thomas B. (1983-2002)**

*Professor Emeritus, Advanced Technology and Applied Science*

**Moore, Arlene C. (1968-1981)**

*Professor Emeritus, Librarian*

**Morgan, Thomas V. (1973-2004)**

*Professor Emeritus, Fine Arts*

**Morris, Josephine H. (1987-2010)**

*Professor Emeritus, Health Sciences and Human Services*

**Nawa-Raridon, Susan E. (1985-2011)**

*Professor Emeritus, Health Sciences and Human Services*

**Nelson, Calvin L. (1969-2004)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Newell, Linda M. (1991-2011)**

*Professor Emeritus, Business Science*

**Newman, Terry W. (1977-2011)**

*Professor Emeritus, Fine Arts and Media Technology*

**Nicolson, Sheryl A. (1980-2005)**

*Professor Emeritus, Social and Behavioral Sciences*

**Norris, James (1969-1985)**

*Professor Emeritus, Business Science*

**Olson, Robert W. (1968-2002)**

*Professor Emeritus, Social and Behavioral Sciences*

**Otta, William E. (1968-2002)**

*Professor Emeritus, Social and Behavioral Sciences*

**Parsons, Robert N. (1968-2011)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Patton, Ken (2003-2011)**

*Professor Emeritus, Business Science*

**Petricig, Michael B. (1988-2014)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Pettengill, Robert P. (1976-1993)**

*Professor Emeritus, Business Science*

**Phillips, William B. (1968-1995)**

Professor Emeritus, Social and Behavioral Sciences

**Pierce, Mary Lou (1983-1994)**

Dean Emeritus, Mathematics, Science and Engineering

**Poertner, Gary (2010-2016)**

Chancellor Emeritus

**Potratz, Richard A. (1975-2009)**

Professor Emeritus, Counseling Services and Special Programs

**Prendiville, Margaret B. (1985-1993)**

Professor Emeritus, Health Sciences and Human Services

**Rane-Szostak, Donna (2009-2017)**

Dean Emeritus, Health Sciences and Human Services

**Reed, J. Michael (1985-2011)**

Professor Emeritus, Liberal Arts and Learning Resources

**Reyes, Raymond (1998-2004)**

Associate Professor Emeritus, Social and Behavioral Science

**Rhodes, Lee W. (1968-1988)**

Professor Emeritus, Mathematics, Science and Engineering

**Rice, Linda L. (1968-1995)**

Professor Emeritus, Business Science

**Richardson, Carroll M. (1975-1981)**

Associate Dean Emeritus, Counseling and Guidance

**Riley, William J., III (1980-2010)**

Professor Emeritus, Fine Arts

**Roberts, G. Joyce (1981-1987)**

Professor Emeritus, Health Sciences and Human Services

**Robinson, Terrill L. (1978-2010)**

Professor Emeritus, Emeritus Institute

**Robison, Shelba J. (1976-2003)**

Professor Emeritus, Liberal Arts and Learning Resources

**Roelen, Jay (1968-1995)**

Professor Emeritus, Kinesiology and Athletics

**Rogers, Phil (1977-1993)**

Professor Emeritus, Mathematics, Science and Engineering

**Runyan, Michael G. (1977-2008)**

Professor Emeritus, Liberal Arts and Learning Resources

**Ruyle, Susan (1989-2003)**

Professor Emeritus, Liberal Arts

**Ryan, Patricia K. (1972-1994)**

Professor Emeritus, Health Sciences and Human Services

**Scarola, Vito L. (2000-2017)**

Professor Emeritus, Fine Arts and Media Technology

**Schmidt, Herman A. (1978-1990)**

Dean Emeritus, Admissions and Records/ Outreach

**Sciarrotta, Frank O. (1968-1991)**

Professor Emeritus, Mathematics, Science and Engineering

**Shaver, Karen E. (1988-1998)**

Professor Emeritus, Counseling Services and Special Programs

**Sherrer, Betty J. (1969-1998)**

Professor Emeritus, Kinesiology and Athletics

**Siegel, Linda I. (1986-2008)**

Professor Emeritus, Social and Behavioral Sciences

**Smith, Kathleen F. (1990-2011)**

Professor Emeritus, Liberal Arts and Learning Resources

**Smith, Maureen F. (1981-2002)**

Professor Emeritus, Business Science

**Smolen, Stephen A. (1990-2005)**

Professor Emeritus, Liberal Arts and Learning Resources

**Sneed, Richard (1986-1993)**

Chancellor Emeritus

**Spidell, Dorothy K. (1968-1983)**

Professor Emeritus, Library and Media Services

**Stakan, Gary (1990-2006)**

Professor Emeritus, Counseling Services and Special Programs

**Stavro, Beverly J. (1986-1989)**

Associate Professor Emeritus, Health Sciences and Human Services

**Stevens, Kay L. (1990-2005)**

Professor Emeritus, Health Sciences and Human Services

**Stevens, Roy C. (1968-1999)**

Professor Emeritus, Kinesiology and Athletics

**Stuetz, Richard E. (1969-1999)**

Professor Emeritus, Kinesiology and Athletics

**Sullivan, Patricia L. (1981)**

Professor Emeritus, Economic & Workforce Development and Business Science

**Summers, William L. (1985-2011)**

Professor Emeritus, Mathematics, Science and Engineering

**Surface, Milton B. (1968-1986)**

Professor Emeritus, Social Sciences

**Swartzbaugh, Jack A. (1968-1999)**

Professor Emeritus, Counseling Services and Special Programs

**Swearingen, Kenneth D. (1976-1999)**

Professor Emeritus, Kinesiology and Athletics

**Sworder, Steven C. (1977-2013)**

Professor Emeritus, Mathematics, Science and Engineering

**Tarui, Kazumitsu (1980-2011)**

Professor Emeritus, Mathematics, Science and Engineering

**Tash, Steven J. (1979-2004)**

Professor Emeritus, Liberal Arts and Learning Resources

**Taylor, Don (2000-2013)**

Dean Emeritus, Advanced Technology and Applied Science

**Thomas, Arlene E. (1988-2017)**

Professor Emeritus, Advanced Technology and Applied Science

**Thorpe, James F. (1968-1995)**

Professor Emeritus, Mathematics, Science and Engineering

**Titus, David B. (1990-2010)**

Professor Emeritus, Advanced Technology and Applied Science

**Valencic, Joseph J. (1979-2004)**

Professor Emeritus, Mathematics, Science and Engineering

**Van Elzakker, Lucille (1973-1981)**

Professor Emeritus, Health Science and Gerontology

**Venable, Samantha J. (1988-2016)**

Professor Emeritus, Health Sciences and Human Services

**Victor, Richard E. (1990-2004)**

Professor Emeritus, Liberal Arts and Learning Resources

**Vincenzi, Jean M. (1968-1990)**

Professor Emeritus, Mathematics, Science and Engineering

**Waian, Lee B. (1979-2002)**

Professor Emeritus, Technology and Applied Science

**Walker, Don A. (1970-1992)**

Professor Emeritus, Mathematics, Science and Engineering

**Walker, H. Lee (1971-2004)**

Professor Emeritus, Liberal Arts and Learning Resources

**Watkins, Peggy (1989-2007)**

Professor Emeritus, Mathematics, Science and Engineering

**Watkins, Ray E. (1977-2007)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Weisgerber, William H. (1973-2009)**

*Professor Emeritus, Business Science*

**Weisrock, Thomas J. (1974-2011)**

*Professor Emeritus, Liberal Arts and Learning Resources*

**Wells, Lynn K. (1975-2004)**

*Professor Emeritus, Fine Arts*

**Whitt, Terri (1976-2010)**

*Professor Emeritus, Health Sciences and Human Services*

**Williams, William M. (1968-1993)**

*Dean Emeritus, Social and Behavioral Sciences*

**Wilson, Richard C. (1978-2003)**

*Professor Emeritus, Health Sciences and Human Services*

**Woodward, Kenneth G., Jr. (1986-2017)**

*Professor Emeritus, Social and Behavioral Sciences*

**Wright, James R. (1994-2012)**

*Dean Emeritus, Mathematics, Science and Engineering*

**Wrightsman, Ruth A. (1988-2006)**

*Professor Emeritus, Mathematics, Science and Engineering*

**Yates, James D. (1980-2002)**

*Professor Emeritus, Business Science*

**Zakrzewski, Danuta (1981-2011)**

*Professor Emeritus, Health Sciences and Human Services*

**Zevnik, Barbara (1981-1989)**

*Professor Emeritus, Health Sciences and Human Services*

**Zimbalist, Donald R. (1975-1997)**

*Professor Emeritus, Liberal Arts*

## Associate Faculty

Saddleback College has, in addition to the regular full-time contract faculty, many qualified associate instructors who come from industry, business and other educational institutions. This produces a faculty with many talents to support a diversified program of offerings requested and expected of the community college.



## Saddleback College Catalog Addendum

The Saddleback College Catalog Update represents course, program and content revisions made since the publication of the catalog.

The update notes whether courses or programs are new or modified.

Students are strongly encouraged to seek advice from the Counseling faculty and department chairs regarding program requirements in the development of their academic plan. While every effort has been made to ensure the accuracy of the information provided in the catalog and the addendum, Saddleback College reserves the right to make changes as necessary, and to change, without notice, any of the information, requirements, and regulations as required for compliance with State regulations.

**All updates are effective Spring 2019  
and will be incorporated into the Online Catalog.**

### Catalog Addendum Table of Contents

Modified Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
Administrative Medical Assistant					●			375
Alcohol and Drug Studies				●	●			376,378
American Sign Language				●	●			380,381
Analog and Digital Circuit Electronic Technology				●	●			382,383
Architectural Drafting ( <b>Revised Title: Architecture</b> )				●	●			384,386
Art History	●							387
Astronomy				●				389
Automotive Chassis Specialist				●				391
Automotive Engine Performance Specialist					●			392
Automotive Engine Service Specialist				●				393
Business Administration			●					395
Communication Studies	●							397
Community Based Corrections				●	●			399,401
Computer Graphics				●	●			403,404
Computer Maintenance Technology				●	●			405,406
Construction Inspection				●	●			407,408
Digital Electronic Technology				●	●			409,410

Modified Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
Drafting Technology				●	●			411,412
Early Childhood Teacher					●			413
Elementary Teacher Education	●							415
Engineering				●				417
Family and Consumer Sciences				●	●			418,419
Fashion Merchandising				●	●			420,422
Foods				●	●			424,425
General Electronic Technology					●			426
Geography	●							427
Gerontology Interdisciplinary						▲		429
Graphic Communications				●	●			431,432
Graphic Design				●	●			433,434
Health Sciences				●				435
History	●							437
Horticulture ( <b>Revised Title: Sustainable Horticulture</b> )				●	●			439,440
Human Services Generalist				●	●			441,443
Humanities		●						445
Journalism	●							446

A.A.T.	A.A.	A.S.T.	A.S.	CA - ●	CA - ▲	O.S.A
Associate in Arts for Transfer	Associate of Arts Degree	Associate in Science for Transfer	Associate of Science Degree	Certificate of Achievement – Vocational Program or other area approved by the State Chancellor's Office 18 Units or more	Certificate of Achievement – Vocational Program or other area approved by the State Chancellor's Office 12 to fewer than 18 Units	Occupational Skills Award – Vocational Program 6-17.9 Units

## Catalog Addendum Table of Contents

Modified Program	AAT	AA	AST	AS	CA - ●	CA - ▲	OSA	Page
Landscape Design ( <b>Revised Title: Sustainable Landscape Design</b> )				•	•			449,450
Liberal Studies		•						451
Marine Science Technician				•	•			453,454
Medical Lab Technology ( <b>Revised Title: Medical Laboratory Technician</b> )				•	•			455,457
Mental Health Worker				•	•			459,461
Nutrition				•	•			463,464
Philosophy		•						465
Physics				•				467
Political Science	•	•						468,470
Psychology	•							471
Professional Retailing ( <b>Revised Title: Retailing and Selling</b> )				•	•			473,475
Seamanship				•	•			477,478
Studio Arts	•							479
Theatre Arts	•							481
Theatre Arts Performance and Acting		•						482
Theatre Arts Technical Theatre		•						483
Travel and Tourism				•	•			484,485
Visual Fashion Merchandising ( <b>Revised Title: Fashion Display and Presentation</b> )				•				486
Visual Fashion Merchandising ( <b>Revised Title: Visual Display and Presentation</b> )					•			487

A.A.T.	A.A.	A.S.T.	A.S.	C.A. - ●	C.A. - ▲	O.S.A
Associate in Arts for Transfer	Associate of Arts Degree	Associate in Science for Transfer	Associate of Science Degree	Certificate of Achievement – Vocational Program or other area approved by the State Chancellor's Office 18 Units or more	Certificate of Achievement – Vocational Program or other area approved by the State Chancellor's Office 12 to fewer than 18 Units	Occupational Skills Award – Vocational Program 6-17.9 Units

## New Course Offering

AUTO 235	Page
Basic Automotive Tire Service (ATS) & TPMS Monitoring	390

## Catalog 2018-19 Revised – Page 182 Printed Catalog

### Current Administrative Medical Assistant Certificate of Achievement

This program prepares the student for employment as an administrative (front office) medical assistant in a physician's office or clinic. ~~The Administrative Medical Assistant program prepares the student to schedule appointments, perform medical reception duties, handle financial matters (including medical collection), manage electronic health records and other medical records, and do insurance billing. The externship in the front office of a physician's office will help provide the student with the administrative experience necessary to enter the workforce. Students are required to hold a valid basic life support CPR card for healthcare providers and carry malpractice insurance while in MA 217\*.~~

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate administrative medical 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.~~

#### Required Courses:

Course ID	Title	Units
HSC 201	Medical Terminology	3
INSR 260	Computer Applications/HER in Health Care	3
INSR 224A	Reimbursement Methodologies	3
INSR 226A	CPT/Ambulatory Care Coding	3
INSR 228A	Fundamentals of ICD Coding	3
MA 206	Introduction to Medical Assisting	3
MA 211A	Medical Reception Techniques	2.5
MA 212A	Medical Office Financial Procedures	2.5
MA 213A	Medical Records Management	2.5
MA 217A*	Medical Assisting Clinical Experience -- Administrative	3
MA 222	Legal and Ethical Aspects of Health Information	3
Total Units for the Certificate:		31.5

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

Suggested coursework not required for the major: **EMT 207, EMT 207C; PHLB 240**; MA 211B, MA 213B, MA 214B, MA 218B.

### Revised Administrative Medical Assistant Certificate of Achievement

The Administrative Medical Assistant Certificate of Achievement prepares students for employment as administrative (front office) medical assistants in a physician's office, clinic or outpatient center.

Students learn skills and job competencies for entry into the workplace. These include: professionalism, soft skills, appointment scheduling, reception duties, medical records management, insurance authorizations, reimbursement, billing and coding for the medical office or clinic. Students complete 150 hours of supervised training in a medical office or clinic. Proof of medical malpractice insurance, current Basic Life Support (BLS) certification and health clearance are required for the clinical experience. A minimum grade of "C" in all courses is required. Letter grade only. Upon completion of this certificate program, students meet the California Certification Board of Medical Assistant's certification examination (CCBMA) requirements. Students may enter the program in Spring, Summer or Fall. There are no pre-requisites for entry into the program.

Other potential careers that the student may enter upon completion include: Medical Insurance Coding Specialist, Health Medical Preparatory programs, Medical Office Management/Administration, Medical Receptionist, or Medical Secretary.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate administrative medical skills
- Describe legal and ethical practices related to medical care
- Demonstrate medical office employability skills

#### Required Courses:

Course ID	Title	Units
MA 206	Introduction to Medical Assisting	3
MA 224A	Basics of Medical Insurance, Billing and Reimbursement	3
MA 280	Healthcare Organization Practices	3
MA 282	Fundamentals of Medical Practice Coding	3
HSC 104	Medical Terminology	3
HSC 106	Legal and Ethical Aspects of Health Information	3
HSC 107*	Human Body Fundamentals	3
CIM 112	Microsoft Office	3
MA 217A*	Medical Assisting Clinical Experience -- Administrative	3
Total Units for the Certificate:		27

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

Suggested coursework not required for the major: MA 211B, **MA 212B** MA 213B, MA 214B, MA 218B.

## Catalog 2018-19 Revised – Page 162 Printed Catalog

### Current Alcohol and Drug Studies Associate in Science

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.~~

#### Core Courses:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
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
Select from Restricted Electives:		3
Total Units for the Major:		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

### Revision Alcohol and Drug Studies Associate of Science

The Alcohol and Drug Studies program integrates theory, knowledge, and practical experience in the development of skills necessary to work with individuals and families affected by Substance Use Disorders (SUD), as well as employers of individuals affected by SUD. The Alcohol and Drug Studies program prepares students to take the exam for Certified Addiction Counselors with a state-approved certifying organization. This program option combines the Human Services behavioral core skills training and clinical supervised experiential learning in beginning and advanced practicums in SUD fieldwork settings. The Alcohol and Drug Studies program prepares students for career development in field of behavioral health and the helping professions.

Completion of the five (5) Human Services Core Courses are prerequisites for the application to the HS 110 Fieldwork and Seminar I (Beginning Practicum) and is required for the completion of the Alcohol and Drug Studies Associate of Science degree. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the Alcohol and Drug Studies Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled in the fall and spring semesters to inform students of the application process. Check the Human Services website or Facebook page for the dates and times.

The application process is competitive and completion of an application does not guarantee acceptance into the HS110 Fieldwork & Seminar I (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the HS110 Fieldwork & Seminar I (Beginning Practicum) course may self-enroll in the HS 150 Fieldwork & Seminar II (Advanced Practicum) course.

Potential Careers: Certified Addiction Treatment Counselor, Case Manager, Community Outreach Worker, Halfway House Worker, Intake Specialist, Rehabilitation Case Worker, Residential/House Manager.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate best-practice counseling approaches for individuals and families affected by Substance Use Disorders (SUD).
- Utilize effective communication and active listening skills and group counseling facilitation skills.
- Demonstrate the effective use of addiction counseling competencies.
- Apply Human Services behavioral core skills and experiential training in an addiction treatment setting.



## Catalog 2018-19 Revised – Page 162 Printed Catalog

### Current Alcohol and Drug Studies Associate in Science

*continued*

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

#### Associate in Science Degree

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

#### 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.

### Revision Alcohol and Drug Studies Associate of Science

*continued*

#### Required Core Courses:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 170	Alcohol and Other Drugs in our Society	3
<b>HS 171</b>	<b>Substance Abuse – Intervention, Treatment and Recovery</b>	<b>3</b>
HS 140	Group Leadership and Group Process	3
<b>HS 174</b>	<b>Case Administration, Crisis Intervention and Referral</b>	<b>3</b>
<b>HS 176*</b>	<b>Co-Occurring Disorders</b>	<b>3</b>
HS 285	Ethical Issues and Client's Rights	3
<b>HS 172*</b>	<b>Physiological Effects and Pharmacology of Alcohol and Drugs</b>	<b>3</b>
<b>HS 110*</b>	<b>Field Instruction and Seminar I</b>	<b>3.5</b>
<b>HS 150*</b>	<b>Field Instruction and Seminar II</b>	<b>3.5</b>
	Select from Restricted Electives:	<u>3</u>
	<b>Total Units for the Certificate:</b>	<b>37</b>

#### Restricted Electives: Students are required to choose one restricted elective.

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 112*	Conflict Resolution and Mediation	3
HS 220	Benefits and Entitlement	3

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 165 Printed Catalog

### Current Alcohol and Drug Studies Certificate of Achievement

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.~~

#### Core Courses:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
Total Core Units for the Certificate:		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
Select from Restricted Electives:		3
Total Units for the Certificate:		37

### Revision Alcohol and Drug Studies Certificate of Achievement

The Alcohol and Drug Studies program integrates theory, knowledge, and practical experience in the development of skills necessary to work with individuals and families affected by Substance Use Disorders (SUD), as well as employers of individuals affected by SUD. The Alcohol and Drug Studies program prepares students to take the exam for Certified Addiction Counselors with a state-approved certifying organization. This program option combines the Human Services behavioral core skills training and clinical supervised experiential learning in beginning and advanced practicums in SUD fieldwork settings. The Alcohol and Drug Studies program prepares students for career development in field of behavioral health and the helping professions.

Completion of the five (5) Human Services Core Courses are prerequisites for the application to the HS 110 Fieldwork and Seminar I (Beginning Practicum) and is required for the completion of the Alcohol and Drug Studies Certificate Program. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the Alcohol and Drug Studies Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled in the Fall and Spring semesters to inform students of the application process. Check the Human Services website or Facebook page for the dates and times.

The application process is competitive and completion of an application does not guarantee acceptance into the HS110 Fieldwork & Seminar I (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the HS110 Fieldwork & Seminar I (Beginning Practicum) course may self-enroll in the HS 150 Fieldwork & Seminar II (Advanced Practicum) course.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate best-practice counseling approaches for individuals and families affected by Substance Use Disorders (SUD).
- Utilize effective communication and active listening skills and group counseling facilitation skills.
- Demonstrate the effective use of addiction counseling competencies.
- Apply Human Services behavioral core skills and experiential training in an addiction treatment setting.

## Catalog 2018-19 Revised – Page 165 Printed Catalog

### Current Alcohol and Drug Studies Certificate of Achievement

*continued*

#### 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.

### Revision Alcohol and Drug Studies Certificate of Achievement

*continued*

#### Required Core Courses:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 170	Alcohol and Other Drugs in our Society	3
<b>HS 171</b>	<b>Substance Abuse – Intervention, Treatment and Recovery</b>	<b>3</b>
HS 140	Group Leadership and Group Process	3
<b>HS 174</b>	<b>Case Administration, Crisis Intervention and Referral</b>	<b>3</b>
<b>HS 176*</b>	<b>Co-Occurring Disorders</b>	<b>3</b>
HS 285	Ethical Issues and Client's Rights	3
<b>HS 172*</b>	<b>Physiological Effects and Pharmacology of Alcohol and Drugs</b>	<b>3</b>
<b>HS 110*</b>	<b>Field Instruction and Seminar I</b>	<b>3.5</b>
<b>HS 150*</b>	<b>Field Instruction and Seminar II</b>	<b>3.5</b>
	Select from Restricted Electives:	3
	<b>Total Units for the Certificate:</b>	<b>37</b>

#### Restricted Electives: Students are required to choose one restricted elective.

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 112*	Conflict Resolution and Mediation	3
HS 220	Benefits and Entitlement	3

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

## Catalog 2018-19 Revised – Page 75 Printed Catalog

### Current American Sign Language Associate in Science

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 needed 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
<b>Total Units for the Major:</b>		<b>19</b>

#### 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

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

### Revised American Sign Language Associate of Science

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. Their sets of language skills and cultural knowledge allows them to transfer into several different programs such as Theater, Health Science/medical, law, and Education just to name a few. Proficiency in ASL is valuable to professionals in special education, health sciences, audiology, and speech therapy. Students will be prepared for occupations as agency interpreters, classroom interpreters, theatre interpreters, and assistants/aids to members of the Deaf community.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate the skills needed 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
<b>Total Units for the Major:</b>		<b>19</b>

#### Associate of Science 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 of Science 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 has a prerequisite, corequisite, limitation, or recommended preparation; see course description.



## Catalog 2018-19 Revised – Page 76 Printed Catalog

### Current American Sign Language Certificate of Achievement

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 needed 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.

<i>Course ID</i>	<i>Title</i>	<i>Units</i>
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
<b>Total Units for the Certificate:</b>		<b>19</b>

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

### Revised American Sign Language Certificate of Achievement

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. **Students will be prepared for occupations as agency interpreters, classroom interpreters, theatre interpreters, and assistants/aids to members of the Deaf community.**

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate the skills needed 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.

<i>Course ID</i>	<i>Title</i>	<i>Units</i>
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
<b>Total Units for the Certificate:</b>		<b>19</b>

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

## Catalog 2018-19 Revised – Page 130 Printed Catalog

### Current Analog and Digital Circuit Electronic Technology Associate in Science

~~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.

#### Required Courses:

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 118*	Electronic Communication Systems	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      20**

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

#### Associate in Science Degree

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

#### 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 program~~; CMT 220, CMT 225, CMT 230; MATH 7, MATH 124, ~~MATH 251~~, MATH 253; PHYS 2A, PHYS 2B, PHYS 20.

### Revised Analog and Digital Circuit Electronic Technology Associate of Science

**The Analog and Digital Circuit Electronic Technology Associate of Science degree** program **primarily** 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. **The program also provides skill updating and upgrading for persons already employed in the electronics industry or related fields.** 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. **Possible careers for electronic technicians with this degree include field service technician, medical equipment technician, test and calibration technician, and electronics sales. Some of the courses are transferable to university programs in Engineering Technology or Industrial Technology.**

#### 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.

#### Required Courses:

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 118*	Electronic Communication Systems	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      20**

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

#### Associate of Science 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 ~~of~~ Science 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.

Suggested coursework not required for the ~~degree~~: Any Electronic Technology courses not taken in **degree such as ET 101, ET 201, or ET 202;** **Additional suggested coursework: CIM 10, CMT 220, CMT 225, CMT 230; MATH 7, MATH 124, MATH 253; PHYS 2A, PHYS 2B, PHYS 20.**

## Catalog 2018-19 Revised – Page 131 Printed Catalog

### Current

#### Analog and Digital Circuit Electronic Technology Certificate of Achievement

~~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.

#### Required Courses

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 118*	Electronic Communication Systems	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 Certificate    20**

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

### Revised

#### Analog and Digital Circuit Electronic Technology Certificate of Achievement

The Analog and Digital Circuit Electronic Technology certificate 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. The certificate also provides skill updating and upgrading for persons already employed in the electronics industry or related fields.

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. Possible careers for electronic technicians with this certificate include field service technician, medical equipment technician, test and calibration technician, and electronics sales.

#### 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.

#### Required Courses

Course ID	Title	Units
ET 114*	Digital Electronic Circuits	4
ET 118*	Electronic Communication Systems	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 Certificate    20**

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

## Catalog 2018-19 Revised – Page 78 Printed Catalog

### Current Architectural Drafting Associate in Science

~~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 Nouveau, 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.

#### First Year

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

#### Second Year

ARCH 34*	Basic Architectural Design I	3
ARCH 42*	Descriptive Drawing and Perspective	3
ARCH 122	Architectural Practice	2
ARCH 124B*	Architectural Drawing II	4
ARCH 124C*	Architectural Drawing III	4
ARCH 126	Materials and Methods of Construction	3
	Select from Restricted Electives	3-6

**Total Units for the Major      49-52**

#### Restricted Electives

<del>ARCH 44*</del>	<del>Architectural Presentation and Rendering</del>	<del>2</del>
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	3
ARCH 165	Electrical Code Inspection	3
ARCH 200	Design in Arizona, Riverside and Palm Springs	1.5
ARCH 211	Concrete Inspection	3
ARCH 212	Drains, Waste, Vents, Water and Gas	3
ARCH 213	Mechanical Code – Heating, AC, Refrigeration, and Ductwork	3
<del>ARCH 221*</del>	<del>Advanced Revit and Building Information Management II</del>	<del>4</del>
ARCH 260	Architecture in Northern California	1.5
ARCH 261	Orange and San Diego Architecture	1.5
ARCH 262	Los Angeles Architecture	1.5
<del>DR 200*</del>	<del>3D Parametric Modeling – Solidworks</del>	<del>3</del>
<del>MFG 200*</del>	<del>Introduction to Rapid Prototyping Technology</del>	<del>3</del>
<del>MFG 201*</del>	<del>Advanced CAD Model Making and Tooling</del>	<del>2</del>

### Revised Architecture Associate of Science

**The Associate of Science Degree in Architecture** is a three-year sequence of courses designed for students who wish to train for employment in architecture or a field related to the construction industry. **Majors that student can transfer into include: architecture, architectural engineering, and construction management. This degree is organized to provide the breadth and depth required to practice in entry level positions within the architecture profession and construction industry such as: architectural draftsman, civil drafter, construction manager, real estate developer, and government building code administration, as well as related construction industry jobs. Students who successfully complete an Associate of Science Degree in Architecture may complete an 8 year internship working for a licensed architect and/or professional engineer and will qualify to take the California Architects License Exam leading to a career as a licensed architect.**

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate designs in 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 Nouveau, 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
<b>Required Core</b>		
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 120*	Revit and Building Information Management(BIM)	4
<del>ARCH 121*</del>	<del>Advanced Revit and Building Information Management II</del>	<del>4</del>
ARCH 34*	Basic Architectural Design I	3
ARCH 42*	Descriptive Drawing and Perspective	3
ARCH 122	Architectural Practice	2
ARCH 124B	Architectural Drawing II	4
ARCH 124C	Architectural Drawing III	4
ARCH 126	Materials and Methods of Construction	3
<del>ARCH 231</del>	<del>LEED and Sustainable Architecture</del>	<del>3</del>
	Select from Restricted Electives	3-6

**Total Units for the Major      56-59**

#### Restricted Electives

ARCH 132*	Residential Planning, Principles and Design	3
<del>ARCH 136</del>	<del>Basic Architectural Design II</del>	<del>3</del>
ARCH 152*	Advanced Computer-Aided Design	3
or		
DR 152*	Advanced Computer-Aided Design	3
ARCH 161	Blueprint Plans and Specification Reading	4
<del>ARCH 162</del>	<del>Construction Estimating</del>	<del>3</del>
ARCH 163	International Building Code Inspection	4
ARCH 164*	Combination Residential Dwelling Inspection	3
ARCH 165	Electrical Code Inspection	3



## Catalog 2018-19 Revised – Page 78 Printed Catalog

### Current ~~Architectural Drafting~~ Associate in Science

*continued*

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

#### Associate in Science Degree

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

#### 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~~

### Revised Architecture Associate of Science

*continued*

ARCH 200	Design in Arizona, Riverside and Palm Springs	1.5
ARCH 211	Concrete Inspection	3
ARCH 212	<u>Plumbing Codes</u> - Drains, Waste, Vents, Water and Gas	3
ARCH 213	Mechanical Code – Heating, AC, Refrigeration, and Ductwork	3
ARCH 260	Architecture in Northern California	<u>1</u>
ARCH 261	Orange and San Diego Architecture	<u>1</u>
ARCH 262	Los Angeles Architecture	<u>1</u>
<u>ARCH 270</u>	<u>Field Study – European Architectural History</u>	<u>3</u>
<u>ARCH 271</u>	<u>Field Study – European Sketch, Draw, Photo</u>	<u>3</u>
<u>ARCH 272</u>	<u>Field Study – European Design Studio</u>	<u>4</u>

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 79 Printed Catalog

### Current Architectural Drafting Certificate of Achievement

**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 Nouveau, 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.

#### First-Year

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 <del>220</del> *	Revit and Building Information Management(BIM)	4

#### Second-Year

ARCH 34*	Basic Architectural Design I	3
ARCH 42*	Descriptive Drawing and Perspective	3
ARCH 122	Architectural Practice	2
ARCH 124B*	Architectural Drawing II	4
ARCH 124C*	Architectural Drawing III	4
ARCH 126	Materials and Methods of Construction	3
	Select from Restricted Electives	3-6

**Total Units for the Certificate      49-52**

#### Restricted Electives

ARCH 44*	Architectural Presentation and Rendering	2
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	3
ARCH 165	Electrical Code Inspection	3
ARCH 200	Design in Arizona, Riverside and Palm Springs	1.5
ARCH 211	Concrete Inspection	3
ARCH 212	Drains, Waste, Vents, Water and Gas	3
ARCH 213	Mechanical Code – Heating, AC, Refrigeration, and Ductwork	3
ARCH <del>221</del> *	Advanced Revit and Building Information Management II	4
ARCH 260	Architecture in Northern California	<del>1.5</del>
ARCH 261	Orange and San Diego Architecture	<del>1.5</del>
ARCH 262	Los Angeles Architecture	<del>1.5</del>
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.

### Revised Architecture Certificate of Achievement

**The Architecture Certificate of Achievement** program is a two-year sequence of courses designed for students who wish to train for **entry-level** employment in architecture or a field related to the construction industry. **It also provides returning students with ongoing education to increase their job skills. Careers that the program allows students to pursue include: architectural draftsman, construction manager, real estate developer, and government building code administration, as well as related construction industry jobs.**

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Communicate designs in 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 Nouveau, 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
<b>Required Core</b>		
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 <del>120</del> *	Revit and Building Information Management(BIM)	4
ARCH 34*	Basic Architectural Design I	3
ARCH 42*	Descriptive Drawing and Perspective	3
ARCH 122	Architectural Practice	2
ARCH 124B	Architectural Drawing II	4
ARCH 124C	Architectural Drawing III	4
ARCH 126	Materials and Methods of Construction	3
	Select from Restricted Electives	3-6

**Total Units for the Certificate      49-52**

#### Restricted Electives

ARCH 44*	Architectural Presentation and Rendering	2
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	3
ARCH 165	Electrical Code Inspection	3
ARCH 200	Design in Arizona, Riverside and Palm Springs	1.5
ARCH 211	Concrete Inspection	3
ARCH 212	<b>Plumbing Codes</b> - Drains, Waste, Vents, Water and Gas	3
ARCH 213	Mechanical Code – Heating, AC, Refrigeration, and Ductwork	3
ARCH <del>121</del> *	Advanced Revit and Building Information Management II	4
ARCH 260	Architecture in Northern California	<del>1</del>
ARCH 261	Orange and San Diego Architecture	<del>1</del>
ARCH 262	Los Angeles Architecture	<del>1</del>
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.

## Catalog 2018-19 Revised – Page 81 Printed Catalog

### Current Art History Associate in Arts 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 be prepared for transfer in art history, be prepared for employment in the field through experience in art history, and demonstrate skills to pursue lifelong learning in the areas of art history.

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.

#### Required Courses:

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
<b>ART 9*</b>	<b>Ceramics Fundamentals</b>	<b>3</b>
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
<b>ARTH 28</b>	<b>History of Modern Art</b>	<b>3</b>
ARTH 29	Introduction to World Art	3
ART 4	Fundamentals of Art	3
<b>ARTH 20</b>	<b>Art Appreciation</b>	<b>3</b>
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.

### Revised Art History Associate in Arts for Transfer

The AA-T for Art History is designed for those students primarily seeking employment in fields such as studio art, galleries, art auction, art journalism, art criticism, museums, and teaching. Additionally, students who transfer with an Art History degree are well-prepared for jobs in fields that require abstract and analytical thinking such as consulting, journalism, grant writing, and any other field where desirable candidates require a humanistic education.

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.

The Art History program at Saddleback College does not currently have any enrollment limitations, but we offer our non-western art history courses on a rotating basis. This means that students may not be able to enroll in the specific non-western class of their choice before they must declare for graduation.

#### 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.

#### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth Requirements (CSU GE-Breadth).**
  - 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 "P" Pass) or better in all courses required for the major or area of emphasis.**

#### Required Core: (9 units)

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

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

ARTH 22	Survey of Asian Art (India, China, Japan, and Korea)	3
ARTH 23	African, Oceanic, and Ancient North American Art	3

#### List 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 10*	Ceramics – Handbuilding I	3
<b>ART 11*</b>	<b>Ceramics – Wheel I</b>	<b>3</b>
<b>PHOT 50</b>	<b>Digital Photography I</b>	<b>3</b>
ART 70	Fundamentals of Sculpture	3
<b>ART 71*</b>	<b>Additive Sculpture</b>	<b>3</b>
<b>ART 72*</b>	<b>Subtractive Sculpture</b>	<b>3</b>
<b>ART 175*</b>	<b>Metal Casting</b>	<b>3</b>
ART 60*	Intaglio (Etching) and Relief I	3
<b>ART 61*</b>	<b>Intaglio (Etching) and Relief II</b>	<b>3</b>
<b>ART 62*</b>	<b>Intaglio (Etching) and Relief III</b>	<b>3</b>

#### List C: Select one of the following courses or any List A or List B course not already used (3-5 units)

ARTH 29	Introduction to World Art	3
ART 4	Fundamentals of Art	3

## Catalog 2018-19 Revised – Page 81 Printed Catalog

### Current Art History Associate in Arts for Transfer

### Revised Art History Associate in Arts for Transfer

*continued*

ARTH 21	Women and Art	3
ARTH 24	Indigenous Arts of the Americas	3
ARTH 27	History of American Art	3
FR 1*	Elementary French	5
GER 1*	Elementary German	5
SPAN 1*	Elementary Spanish	5
<u>or</u>		
<b>SPAN 1H*</b>	<b>Honors Elementary Spanish</b>	<b>5</b>

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**Total Units for the Major      18-20**

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



## Catalog 2018-19 Revised – Page 82 Printed Catalog

### Current

#### Astronomy Associate in Science

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
<b>First Year</b>		
ASTR 25*	Observational Astronomy	3
<b>CS 1A*</b>	<b>Introduction to Computer Science</b>	<b>3.5</b>
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
<b>Second Year</b>		
PHYS 4B*	General Physics	5
<b>PHYS 4C*</b>	<b>General Physics</b>	<b>5</b>
<b>Total Units for the Major:</b>		<b>34</b>

\*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 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

### Revision

#### Astronomy Associate of Science

The curriculum in the Astronomy Associate **of Science** degree program is designed to provide the transfer student the opportunity to achieve a degree in Astronomy. The degree can focus on observational astronomy, which focuses on acquiring data using principles of physics, or theoretical astronomy, which is orientated towards using computer and analytical models to describe astronomical objects and phenomena. 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 within research universities, aerospace and national observatories. Examples of such positions are technicians at observatories, planetariums, or companies making telescopes and astronomical equipment.

#### 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
MATH 3A*	Analytic Geometry and Calculus	5
<b>Or</b>		
<b>MATH 3AH*</b>	<b>Honors Analytic Geometry and Calculus</b>	<b>5</b>
PHYS 4A*	General Physics	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4B*	General Physics	5
<b>ASTR 20</b>	<b>General Astronomy</b>	<b>3</b>
ASTR 25*	Observational Astronomy	3
<b>Total Units for the Major:</b>		<b>26</b>

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

#### Associate of 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 of Science 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.

**Catalog 2018-19 New Course – Automotive Courses Start on Page 236 Printed Catalog****AUTO 235  
New Course****AUTO 235  
BASIC AUTOMOTIVE TIRE SERVICE (ATS) & TPMS  
MONITORING**

*2 Units; 1 hour lecture; 3 hours lab*

*Recommended Preparation: AUTO 100*

Basic Automotive Tire Service (ATS) is a Tire Industry Association (TIA) 200-level minimum skills training and certificate program that outlines and explains the guidelines for servicing passenger and light truck tire and wheel assemblies. It includes the step-by-step procedures for: lifting the vehicle; removing the assembly; demounting, mounting and inflating; balancing; tire repair; and wheel installation. Basic ATS places special emphasis on the relationship between torque and clamping force so technicians have a thorough understanding of the necessary steps to ensure wheel retention on steel and aluminum wheels. Advanced Tire Pressure Monitoring Systems (TPMS) is a 250-level TIA program that focuses on the manufacturer-specific requirements for the most popular domestic and import vehicle/sensor manufacturers.

**NR**

## Catalog 2018-19 Revised – Page 83 Printed Catalog

### Current Automotive Chassis Specialist Associate in Science

~~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.

#### Required Courses

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical Systems	3
AUTO 105*	Automotive Power Train	3
AUTO 106A*	Automotive Suspension and Alignment	3
AUTO 106B*	Automotive Brake Systems	3
AUTO 107*	Automatic Transmission	3
AUTO 108*	Automotive Air Conditioning	3
AUTO 201*	Advanced Automotive Electrical	3
AUTO 207*	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	.5-5

**Total Units for the Major      27.5-32**

#### Restricted Electives

AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 205*	Advanced Smog Update Training	0.5
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
<b>AUTO 240*</b>	<b>Automotive Lab</b>	<b>3</b>
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 Chassis Specialist **Certificate** program.

#### Associate Degree

##### Associate in Science Degree

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

#### 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.

### Revised Automotive Chassis Specialist Associate of Science

The Automotive Chassis Specialist Associate of Science degree program prepares students for a career as automotive technicians with drivetrain emphasis. Students completing the degree will be trained in the maintenance, diagnosis, and repair of vehicle chassis systems that consist of power train operation, air conditioning, tire service, brake system diagnostics, suspension and steering service on both import and domestic vehicles and light trucks. 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 as a chassis technician.
- Apply industry-specific skills related to drivetrain operation, diagnostics and repair.
- Apply knowledge of all phases of power train system operation, diagnostics and repair.
- Demonstrate preparation for related Automotive Service Excellence (ASE) certification exams.
- Seek an entry level automotive technician career in the maintenance, diagnosis and repair of vehicle chassis systems that consist of power train operation, air conditioning, tire service, brake system diagnostics, suspension and steering service on both import and domestic vehicles and light trucks.

#### Required Courses

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 101*	Automotive Electrical Systems	3
AUTO 105*	Automotive Power Train	3
AUTO 106A*	Automotive Suspension and Alignment	3
AUTO 106B*	Automotive Brake Systems	3
AUTO 107*	Automatic Transmission	3
AUTO 108*	Automotive Air Conditioning	3
AUTO 201*	Advanced Automotive Electrical	3
AUTO 207*	Automotive Engineering Fundamentals	3
	Select <u>one course</u> from Restricted Electives	.5-5

**Total Units for the Major      27.5-32**

#### Restricted Electives

AUTO 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 205*	Advanced Smog Update Training	0.5
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
<b>AUTO 235*</b>	<b>Basic Automotive Tire Service (ATS) &amp; TPMS Monitoring</b>	<b>2</b>
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 Chassis Specialist **Associate Degree** program.

#### Associate Degree

##### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 86 Printed Catalog

### Current

#### Automotive Engine Performance Specialist Certificate of Achievement

~~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.

#### Required Courses:

Course ID	Title	Units
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 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200*	Enhanced Area Clean Air Car Course	1
AUTO 201*	Advanced Automotive Electrical	3
AUTO 205*	Advanced Smog Update Training	0.5
AUTO 207*	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	<b>3</b>

**Total Units for the Certificate 27.5**

#### Restricted Electives

AUTO 108*	Automotive Air Conditioning	3
AUTO 202*	Advanced Engine Performance Diagnosis	3
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
<del>AUTO 240*</del>	<del>Automotive Lab</del>	<del>3</del>
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 Chassis Specialist Certificate program

### Revised

#### Automotive Engine Performance Specialist Certificate of Achievement

The Automotive Engine Performance Specialist certificate program allows students to prepare for careers as automotive technicians with an emphasis in engine performance. In this program, students will apply knowledge of all phases of engine electrical systems, computer system operations, diagnostics, and repair. Students will be qualified to take the State of California Bureau of Automotive Repair Smog License exams 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 as an engine performance technician.
- Apply industry specific skills related to engine performance.
- Apply knowledge of all phases of engine electrical system, computer system operation, diagnostics and repair.
- Demonstrate preparation for related **National Institute for Automotive Service Excellence (ASE)** certification exams. Program graduates will be prepared for the State of California Bureau of Automotive Repair Smog License exams.
- Seek an entry level career as an automotive technician/light truck technician in the maintenance, diagnosis and repair of vehicle engine performance systems.

#### Required Courses:

Course ID	Title	Units
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 109*	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200*	Enhanced Area Clean Air Car Course	1
AUTO 201*	Advanced Automotive Electrical	3
AUTO 205*	Advanced Smog Update Training	0.5
AUTO 207*	Automotive Engineering Fundamentals	3
	Select <u>one course</u> from Restricted Electives	<b>1-3</b>

**Total Units for the Certificate 25.5-27.5**

#### Restricted Electives

AUTO 108*	Automotive Air Conditioning	3
AUTO 202*	Advanced Engine Performance Diagnosis	3
AUTO 220*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	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 Chassis Specialist Certificate program



## Catalog 2018-19 Revised – Page 84 Printed Catalog

### Current Automotive Engine Service Specialist Associate in Science

~~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 re-build a complete engine.~~
- ~~Demonstrate preparation for related ASE certification exams.~~

#### Required Courses

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	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 204A*	High Performance Engine Blueprinting – Rotating Assembly	3
AUTO 204B*	High Performance Engine Blueprinting – Cylinder Heads	3
AUTO 207*	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	.5-5
<b>Total Units for the Major</b>		<b>28.5-33</b>

#### 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*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
<b>AUTO 240*</b>	<b>Automotive Lab</b>	<b>3</b>
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.

#### Associate Degree

##### Associate in Science Degree

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

##### 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.

### Revised Automotive Engine Service Specialist Associate of Science

The Automotive Engine Service Specialist Associate of Science degree provides students with a comprehensive background in the engine **rebuilding and** machining process. Emphasis is on detailed instruction in all phases of engine operation, **diagnosis**, measurement, machining, blueprinting and assembly procedures. Students will rebuild a complete engine in a two-semester course sequence. Upon completion of the program, students will be able to work as automotive engine machinists, automotive engine service technicians, engine service shop managers, or general automotive technicians. Graduates of the Automotive Engine Service Specialist Program will be qualified to take the related National Institute for Automotive Service Excellence (ASE) certification exams and Automotive Engine Repair Association (AERA) machining exams.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Seek employment in the automotive industry as an engine service vehicle technician.
- Demonstrate current industry-specific skills related to the safety, operation, service, maintenance and repair of gasoline powered vehicle engines.
- Apply knowledge in the workplace of the different engine designs along with the operation, service and repair of light duty foreign and domestic engines.
- Take the related Automotive Service Excellence (ASE) certification exams. Graduates will also be prepared to take the Automotive Engine Repair Association (AERA) machining exams.
- Meet the qualifications for an entry level career in the maintenance, machining, diagnosis and repair of passenger vehicle and light truck engines. This includes the theory, diagnostics and repair of domestic and foreign engine systems.

#### Required Courses

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	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 204A*	High Performance Engine Blueprinting – Rotating Assembly	3
AUTO 204B*	High Performance Engine Blueprinting – Cylinder Heads	3
AUTO 207*	Automotive Engineering Fundamentals	3
	Select <u>One Course</u> from Restricted Electives	.5-5
<b>Total Units for the Major</b>		<b>28.5-33</b>

#### 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*	Alternative Propulsion Systems	3
AUTO 226*	Automotive Service Consultant	2
AUTO 227*	Automotive Service Management	3
AUTO 228*	Advanced Vehicle Performance	1
AUTO 229*	Diesel Technology	3
AUTO 231*	Hybrid and Electrical Vehicle Technology	3
AUTO 232*	Diesel Systems Technology	3
CWE 180†	Co-Op-Ed Auto	1

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

**Catalog 2018-19 Revised – Page 84 Printed Catalog**

**Current**  
**Automotive Engine Service Specialist**  
**Associate in Science**

**Revised**  
**Automotive Engine Service Specialist**  
**Associate of Science**

*continued*

†CWE 180 should be taken after completing at least 9 units of the Automotive Engine Service Specialist **Associate of Science degree** program.

**Associate Degree****Associate of Science 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 **of Science** 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.

## Catalog 2018-19 Revised – Page 94 Printed Catalog

### Current

#### Associate in Science in Business Administration for Transfer Degree

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.~~

<u>Course ID</u>	<u>Title</u>	<u>Units</u>
<i>Required Courses:</i>		
ACCT 1A	Financial Accounting	4
ACCT 1B	Managerial Accounting	4
ECON 4	Principles (MICRO)	3
ECON 2	Principles (MACRO)	3
BUS 13	Legal Environment and Business	
	Macroeconomics	3
<b>LIST A: Select one of the following courses (3-5 Units)</b>		
MATH 11	A Brief Course in Calculus	5
MATH 10	Introduction to Statistics	3
<b>LIST B: Any List A nor already used (5-6 units)</b>		
CIM 1	Computer Information Systems	4
<b>—And</b>		
BUS 1	Introduction to Business	3
<b>—Or</b>		
BUS 104	Business Communication	3
<b>Total Units for the Major</b>		<b>27-29</b>

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

### Revised

#### Associate in Science in Business Administration for Transfer Degree

**The study of business is a broad and diverse discipline that encompasses topics and tools needed for transfer to baccalaureate programs as well as for entering the world of professional business careers, both domestic and global.**

Students who complete the Associate in Science Degree in Business Administration 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, pursuit of which can be achieved through transfer.

#### Graduation Requirements

**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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.**

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- **Demonstrate preparation for transfer to a four-year institution with the required business, accounting, economics, math, and other learning.**
- **Identify, summarize, and compare 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 using the language of business.**
- **Make effective business decisions using appropriate systematic, evaluative, ethical, information-based approaches.**
- **Develop and exhibit high standards of professional practice, demonstrating awareness of ethical and social responsibilities in today's multi-cultural, team-oriented, rapidly changing environment.**

<u>Course ID</u>	<u>Title</u>	<u>Units</u>
<i>Required Courses:</i>		
ACCT 1A	Financial Accounting	4
ACCT 1B	Managerial Accounting	4
ECON 4	Principles (MICRO)	3
Or		
<b>ECON 4H</b>	<b>Honors Principles of Microeconomics</b>	<b>3</b>
ECON 2	Principles (MACRO)	
Or		
<b>ECON 2H</b>	<b>Honors Principles of Macroeconomics</b>	<b>3</b>
BUS 13	Legal Environment and Business Law	3

## Catalog 2018-19 Revised – Page 94 Printed Catalog

### Current Associate in Science in Business Administration for Transfer Degree

### Revised Associate in Science in Business Administration for Transfer Degree

*continued*

**List A: Select one of the following courses**

MATH 11	A Brief Course in Calculus	5
MATH 10	Introduction to Statistics	3

**List B: Select two of the following courses**

CIM 1	Computer Information Systems	4
BUS 1	Introduction to Business	3
Or		
BUS 104	Business Communication	3

**Total Units for the Major    27-29**

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



## Catalog 2018-19 Revised – Page 113 Printed Catalog

### Current Communication Studies Associate in Arts 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.~~

#### Required Courses:

SP 1	Communication Fundamentals	3
<del>SP 3*</del>	<del>Argumentation and Debate</del>	<del>3</del>
<del>SP 5</del>	<del>Interpersonal Communication</del>	<del>3</del>

#### Select two of the following courses (6 Units)

CTVR 1	Mass Media and Society	3
or		
JRN 1	Mass Media and Society	3
CTVR 124*	Television Production I	3
MATH 10*	Introduction to Statistics	3
SP 20	Intercultural Communication	3
SP 106	Forensics Activity	3
SP 30	Introduction to Oral Interpretation	3
or		
<del>TA 30</del>	<del>Introduction to Oral Interpretation</del>	<del>3</del>

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

ANTH 2	Cultural Anthropology	3
ENG 1B*	Principles of Composition II	3
JRN 2	News Writing	3
PSYC 1	Introduction to Psychology	3
SOC 1	Introduction to Sociology	3

**Total Units for the Major      18**

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

### Revised Communication Studies Associate in Arts for Transfer

Intended for students who wish to develop a fundamental understanding of how communication functions in their daily life and in the fabric of society. After successful completion of the transfer degree in Communication Studies, students may pursue a baccalaureate degree in such areas as teaching, public speaking, law, public relations, advertising, organizational, intercultural, and interpersonal communication. The Associate in Arts in Communication Studies for Transfer Degree may support attempts to gain entry-level employment in fields such as business, industry, government, social service, education, and law.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate ethical ways of interacting in their everyday lives.
- Demonstrate ability to effectively deliver public presentations before live audiences in a variety of settings.
- Apply practical strategies for enhancing the quality of their personal and professional relationships.
- Demonstrate ability to consume public communication critically.
- Demonstrate the ability to construct mindful messages through research and analysis of evidence whether communicated orally or in writing.

#### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements (CSU GE-Breadth).
  - 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 "P" Pass) or better in all courses required for the major or area of emphasis.

Course ID	Title	Units
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#### Required Courses:

SP 1	Communication Fundamentals	3
or		
<del>SP 1H</del>	<del>Honors Communication Fundamentals</del>	<del>3</del>

#### List A: Complete the following courses (6 Units)

<del>SP 3</del>	<del>Argumentation and Debate</del>	<del>3</del>
<del>SP 5</del>	<del>Interpersonal Communication</del>	<del>3</del>

## Catalog 2018-19 Revised – Page 113 Printed Catalog

### Current Communication Studies Associate in Arts for Transfer

### Revised Communication Studies Associate in Arts for Transfer

*continued*

**List B: Select two of the following courses (6 Units)**

SP 106	Forensics Activity	3
SP 20	Intercultural Communication	3
CTVR 1	Mass Media and Society	3
or		
JRN 1	Mass Media and Society	3
SP 30	Introduction to Oral Interpretation	3
<b>SP 2*</b>	<b>Persuasion</b>	<b>3</b>
CTVR 124*	Television Production I	3
MATH 10*	Introduction to Statistics	3

**List C: Select one of the following courses or any course from List B not already used (3 units)**

ANTH 2	Cultural Anthropology	3
or		
<b>ANTH 2H</b>	<b>Honors Cultural Anthropology</b>	<b>3</b>
PSYC 1	Introduction to Psychology	3
or		
<b>PSYC 1H</b>	<b>Honors Introduction to Psychology</b>	<b>3</b>
SOC 1	Introduction to Sociology	3
<b>ENG 25*</b>	<b>Introduction to Literature</b>	<b>3</b>
ENG 1B*	Principles of Composition II	3
or		
<b>ENG 1BH*</b>	<b>Honors Principles of Composition II</b>	<b>3</b>
<b>ENG 70*</b>	<b>Reasoning and College Reading</b>	<b>3</b>
JRN 2*	News Writing	3
<b>SP 8</b>	<b>Gender Communication</b>	<b>3</b>
<b>SP 32*</b>	<b>Interpreters' Theatre</b>	<b>3</b>

**Total Units for the Major     18**

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

## Catalog 2018-19 Revised – Page 163 Printed Catalog

### Current Community Based Corrections Associate in Science

~~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

- Expound 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

#### Core Courses

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
<b>Total Core Units for the Certificate</b>		<b>15</b>

#### Required Courses:

<del>HS 37</del>	<del>Introduction to Criminology</del>	<del>3</del>
<del>HS 110*</del>	<del>Field Instruction and Seminar</del>	<del>3.5</del>
<del>HS 119</del>	<del>Introduction to Criminal Justice System</del>	<del>3</del>
<del>HS 128</del>	<del>Community-Based Corrections</del>	<del>3</del>
<del>HS 150*</del>	<del>Field Instruction and Seminar</del>	<del>3.5</del>
<del>HS 187</del>	<del>Juvenile Violence, Gangs, and Victimization</del>	<del>3</del>
	Select from Restricted Electives:	3
<b>Total Units for the Major:</b>		<b>37</b>

#### 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.

### Revised Community Based Corrections Associate of Science

The Community-Based Corrections program is an introduction to the Human Services behavioral core skills with a specialized area of study in community-based corrections. Historical and contemporary aspects of social control and state and federal mandates of early release programs are studied. Students will learn criminogenic risk factors and pro-social assessments related to reducing recidivism. Students will be introduced to the Collaborative Court systems – alternative sentencing programs. Evaluation of community-based and residential programs to assist adults, juveniles and families transitioning back into society is explored. This program option combines the Human Services behavioral core skills training and supervised experiential learning in beginning and advanced practicums in Community-Based Corrections fieldwork settings. Completion of the Community-Based Corrections (CBC) Associate in Science (AS) degree serves as a pathway for educational and career development in Criminology, Criminal Justice, and Administration of Justice.

Completion of the five (5) Human Services Core Courses are prerequisites for the application to the HS 110 Fieldwork and Seminar I (Beginning Practicum) and is required for the completion of the Community-Based Corrections Certificate Program. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the Alcohol and Drug Studies Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled in the Fall and Spring semesters to inform students of the application process. Check the Human Services website or Facebook page for the dates and times.

The application process is competitive and completion of an application does not guarantee acceptance into the HS110 Fieldwork & Seminar I (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the HS110 Fieldwork & Seminar I (Beginning Practicum) course may self-enroll in the HS 150 Fieldwork & Seminar II (Advanced Practicum) course.

Potential Careers: Probation or Parole Officer, Correctional Officer (in and out of custody), Juvenile Mentorship, California Youth Authority, Half-way House Monitor, Vocational Instructor, and more career opportunities with the California Department of Corrections and Rehabilitation (CDCR) and California Collaborative Courts.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Expound 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.
- Identify and assess criminogenic risk and needs factors.
- Use Human Services behavioral core skills and experiential training in community-based and/or residential settings.

## Catalog 2018-19 Revised – Page 163 Printed Catalog

### Current Community Based Corrections Associate in Science

*continued*

#### 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.

### Revised Community Based Corrections Associate of Science

*continued*

#### Core Courses

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
<b>HS 119</b>	<b>Introduction to Criminal Justice System</b>	<b>3</b>
<b>HS 37</b>	<b>Introduction to Criminology</b>	<b>3</b>
<b>HS 187</b>	<b>Juvenile Violence, Gangs, and Victimization</b>	<b>3</b>
<b>HS 128</b>	<b>Community-Based Corrections</b>	<b>3</b>
<b>HS 110*±</b>	<b>Field Instruction and Seminar I</b>	<b>3.5</b>
<b>HS 150*</b>	<b>Field Instruction and Seminar II</b>	<b>3.5</b>
	<b>Total Core Units for the Major</b>	<b>34</b>
	<b>Restricted Electives</b>	<b>3</b>
	<b>Total Units for the Major:</b>	<b>37</b>

#### Complete one of the following courses (3 Units)

##### Restricted Electives

HS 131	Multicultural and Diverse Populations In the United States	3
HS 174	Case Administration, Crisis Intervention And Referral	3
HS 176*	Co-Occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 182*	Substance Abuse Treatment in Children And Adolescents	3
HS 175	Substance Abuse Education, Prevention, And Intervention	3
<b>HS 112*</b>	<b>Conflict Resolution and Mediation</b>	<b>3</b>

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

± HS 110 requires completion of HS 100, HS 120, HS 140, HS 170 and HS 285

#### Associate of Science 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 of Science** 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.



## Catalog 2018-19 Revised – Page 165 Printed Catalog

### Current Community Based Corrections Certificate of Achievement

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

- Expound 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.

#### Core Courses

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
<b>Total Core Units for the Certificate</b>		<b>15</b>

#### Required Courses:

<del>HS 37</del>	<del>Introduction to Criminology</del>	<del>3</del>
<del>HS 110*</del>	<del>Field Instruction and Seminar</del>	<del>3.5</del>
<del>HS 119</del>	<del>Introduction to Criminal Justice System</del>	<del>3</del>
<del>HS 128</del>	<del>Community-Based Corrections</del>	<del>3</del>
<del>HS 150*</del>	<del>Field Instruction and Seminar</del>	<del>3.5</del>
<del>HS 187</del>	<del>Juvenile Violence, Gangs, and Victimization</del>	<del>3</del>
	Select from Restricted Electives:	<u>3</u>
<b>Total Units for the Certificate</b>		<b>37</b>

#### 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.

### Revision Community Based Corrections Certificate of Achievement

The Community-Based Corrections program is an introduction to the Human Services behavioral core skills with a specialized area of study in community-based corrections. Historical and contemporary aspects of social control and state and federal mandates of early release programs are studied. Students will learn criminogenic risk factors and pro-social assessments related to reducing recidivism. Students will be introduced to the Collaborative Court systems – alternative sentencing programs. Evaluation of community-based and residential programs to assist adults, juveniles and families transitioning back into society is explored. This program option combines the Human Services behavioral core skills training and supervised experiential learning in beginning and advanced practicums in Community-Based Corrections fieldwork settings.

Completion of the five (5) Human Services Core Courses are prerequisites for the application to the HS 110 Fieldwork and Seminar I (Beginning Practicum) and is required for the completion of the Community-Based Corrections Certificate Program. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the Alcohol and Drug Studies Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled in the Fall and Spring semesters to inform students of the application process. Check the Human Services website or Facebook page for the dates and times.

The application process is competitive and completion of an application does not guarantee acceptance into the HS110 Fieldwork & Seminar I (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the HS110 Fieldwork & Seminar I (Beginning Practicum) course may self-enroll in the HS 150 Fieldwork & Seminar II (Advanced Practicum) course.

Potential Careers: Probation or Parole Officer, Correctional Officer (in and out of custody), Juvenile Mentorship, California Youth Authority, Half-way House Monitor, Vocational Instructor, and more career opportunities with the California Department of Corrections and Rehabilitation (CDCR) and California Collaborative Courts

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Expound 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.
- Identify and assess criminogenic risk and needs factors.
- Use Human Services behavioral core skills and experiential training in community-based and/or residential setting.

#### Core Courses

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
<b>HS 119</b>	<b>Introduction to Criminal Justice System</b>	<b>3</b>
<b>HS 37</b>	<b>Introduction to Criminology</b>	<b>3</b>
<b>HS 187</b>	<b>Juvenile Violence, Gangs, and Victimization</b>	<b>3</b>

## Catalog 2018-19 Revised – Page 165 Printed Catalog

### Current Community Based Corrections Certificate of Achievement

### Revision Community Based Corrections Certificate of Achievement

*continued*

<b>HS 128</b>	<b>Community-Based Corrections</b>	<b>3</b>
<b>HS 110*</b>	<b>Field Instruction and Seminar I</b>	<b>3.5</b>
<b>HS 150*</b>	<b>Field Instruction and Seminar II</b>	<b>3.5</b>
	<b>Total Core Units for the Certificate</b>	<b>34</b>
	<b>Restricted Electives</b>	<b>3</b>
	<b>Total Units for the Certificate</b>	<b>37</b>
<b>Complete one of the following courses (3 Units)</b>		
<b>Restricted Electives</b>		
HS 131	Multicultural and Diverse Populations In the United States	3
HS 174	Case Administration, Crisis Intervention And Referral	3
HS 176*	Co-Occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 182*	Substance Abuse Treatment in Children And Adolescents	3
HS 175	Substance Abuse Education, Prevention, And Intervention	3
<b>HS 112*</b>	<b>Conflict Resolution and Mediation</b>	<b>3</b>
HS 220	Benefits and Entitlement	3

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

## Catalog 2018-19 Revised – Page 153 Printed Catalog

### Current Computer Graphics Associate in Science

~~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

#### Required Courses

Course ID	Title	Units
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
<del>GD 148*</del>	<del>Digital Graphic Design</del>	<del>3</del>
GD 149	Digital Illustration	3
GD 150*	Digital Animation	3
GD 151	Digital Layout and Design	3
<del>GD 154*</del>	<del>Digital Pre-Press</del>	<del>3</del>

**Total Units for the Major    24**

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

#### Associate in Science Degree

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

#### 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.~~

### Revised Computer Graphics Associate of Science

The Computer Graphics Associate of Science degree is designed to prepare students for entry-level employment in the computer graphics fields. This program relies heavily on a basic understanding of graphic design and/or computer graphics principles as they relate to industry standards. Some of the careers that are found in the computer graphics field are: animation, motion design, graphic design, multimedia design, digital image design, and responsive media design.

#### 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 computer graphics and production field

#### Required Core

Course ID	Title	Units
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 149	Digital Illustration	3
<u>GD 140</u>	<u>Beginning Graphic Design</u>	<u>3</u>
<u>or</u>		
<u>ART 140</u>	<u>Beginning Graphic Design</u>	<u>3</u>
GD 150*	Digital Animation	3
GD 151	Digital Layout and Design	3
<u>GD 210</u>	<u>Motion Graphics</u>	<u>3</u>
<u>CWE 180</u>	<u>Co-Op-Ed Graphics</u>	<u>1</u>

**Total Units for the Major    22**

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 154 Printed Catalog

### Current Computer Graphics Certificate of Achievement

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

#### Required Courses

Course ID	Title	Units
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
<del>GD 148*</del>	<del>Digital Graphic Design</del>	<del>3</del>
GD 149	Digital Illustration	3
GD 150*	Digital Animation	3
GD 151	Digital Layout and Design	3
<del>GD 154*</del>	<del>Digital Pre-Press</del>	<del>3</del>

**Total Units for the Certificate 24**

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

### Revised Computer Graphics Certificate of Achievement

This **Computer Graphics Certificate of Achievement** is designed to prepare students for **entry-level** employment in the computer graphics fields. This program relies heavily on a basic understanding of graphic design and/or **computer graphics** principles as they relate to industry standards. Some of the careers that are found in the computer graphics field are: **animation, motion design, graphic design, multimedia design, digital image design, and responsive media design.**

#### 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 **computer graphics** and production field

#### Required Core

Course ID	Title	Units
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 149	Digital Illustration	3
<b><u>GD 140</u></b>	<b><u>Beginning Graphic Design</u></b>	<b><u>3</u></b>
<b><u>or</u></b>		
<b><u>ART 140</u></b>	<b><u>Beginning Graphic Design</u></b>	<b><u>3</u></b>
GD 150*	Digital Animation	3
GD 151	Digital Layout and Design	3
<b><u>GD 210</u></b>	<b><u>Motion Graphics</u></b>	<b><u>3</u></b>
<b><u>CWE 180</u></b>	<b><u>Co-Op-Ed Graphics</u></b>	<b><u>1</u></b>

**Total Units for the Certificate 22**

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



## Catalog 2018-19 Revised – Page 121 Printed Catalog

### Current Computer Maintenance Technology Associate in Science

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.

#### Required Courses

Course ID	Title	Units
CIM 1	<del>Introduction to</del> Computer Information Systems	<del>3</del>
or		
CIM 10	Introduction to Information Systems	3
<del>CIM 174+</del>	Computer Operating Systems: Windows	3
CMT 215	Electronics for Computer Technologists	3
or		
ET 101	Survey of Electronics	3
or		
ET 133	DC and AC Fundamentals	4
CMT 220	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
CMT 230*	Applied Network Technology	3
CMT 235*	A+ Exam Preparation for Computer Service Technicians	3
<b>Total Units for the Major</b>		<b>21-22</b>

\*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 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.

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

### Revised Computer Maintenance Technology Associate of Science

The Computer Maintenance Technology **(CMT) Associate of Science degree** program **includes study of personal computer hardware, software, repair, maintenance, and troubleshooting to** prepare the student for entry-level employment as a computer **maintenance** technician in companies involved in the manufacture, installation, repair, maintenance, upgrading, or sales of personal computers and computer networks.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate proper use of the 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.

#### Required Courses

Course ID	Title	Units
CIM 1	Computer Information Systems	<b>4</b>
or		
CIM 10	Introduction to Information Systems	3
<b>CIMN 100</b>	Computer Operating Systems: Windows	3
CMT 215	Electronics for Computer Technologists	3
or		
ET 101	Survey of Electronics	3
or		
ET 133	DC and AC Fundamentals	4
CMT 220	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
CMT 230*	Applied Network Technology	3
CMT 235*	A+ Exam Preparation for Computer Service Technicians	3
<b>Total Units for the Major</b>		<b>21-23</b>

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

#### Associate of Science 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 of Science 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.

Suggested coursework not required for the major: **CIMN 200, 210**; ET 114.

## Catalog 2018-19 Revised – Page 121 Printed Catalog

### Current Computer Maintenance Technology Certificate of Achievement

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.

#### Required Courses:

Course ID	Title	Units
CIM 1	<del>Introduction to</del> Computer Information Systems	<del>3</del>
or		
CIM 10	Introduction to Information Systems	3
<del>CIM 174+</del>	Computer Operating Systems: Windows	3
CMT 215	Electronics for Computer Technologists	3
or		
ET 101	Survey of Electronics	3
or		
ET 133	DC and AC Fundamentals	4
CMT 220	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
CMT 230*	Applied Network Technology	3
CMT 235*	A+ Exam Preparation for Computer Service Technicians	3

**Total 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.**

### Revised Computer Maintenance Technology Certificate of Achievement

The Computer Maintenance Technology **(CMT)** Certificate **of Achievement** program **includes study of personal computer hardware, software, repair, maintenance, and troubleshooting to** prepare the student for entry-level employment as a computer **maintenance** technician in companies involved in the manufacture, installation, repair, maintenance, upgrading, or sales of personal computers and computer networks.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate proper use of **the** 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.

#### Required Courses:

Course ID	Title	Units
CIM 1	Computer Information Systems	<b>4</b>
or		
CIM 10	Introduction to Information Systems	3
<b>CIMN 100</b>	Computer Operating Systems_ Windows	3
CMT 215	Electronics for Computer Technologists	3
or		
ET 101	Survey of Electronics	3
or		
ET 133	DC and AC Fundamentals	4
CMT 220	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
CMT 230*	Applied Network Technology	3
CMT 235*	A+ Exam Preparation for Computer Service Technicians	3

**Total Units for the Certificate 21-23**

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

## Catalog 2018-19 Revised – Page 78 Printed Catalog

### Current Construction Inspection Associate in Science

~~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.

#### Required Courses

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 Major      23**

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

#### Associate Degree

##### Associate in Science Degree

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

##### 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: MATH 351.

### Revised Construction Inspection Associate of Science

The Construction Inspection Associate of Science program is designed to provide both the technical and the theoretical knowledge of construction. This includes understanding of the International Building Code (IBC) and the Residential Building Code (RBC), as well as inspection of concrete, plumbing systems, electrical systems, mechanical systems, and ability to read blueprints. Students will have knowledge of applicable building codes and be prepared to take professional certification exams in the IBC and RBC. These skills are required to secure employment as a corporate in-house inspector, or an agency, city, county or state building and safety inspector.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate working knowledge of the locally adopted International Building Code and/or the Residential Building Code.
- Apply inspection techniques required in 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.

#### Required Courses

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 Major      23**

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

#### Associate Degree

##### Associate of Science 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 of Science 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.

Suggested coursework not required for the major: MATH 351.

## Catalog 2018-19 Revised – Page 80 Printed Catalog

### Current Construction Inspection Certificate of Achievement

~~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.

#### Required Courses

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.

### Revised Construction Inspection Certificate of Achievement

The Construction Inspection Certificate of Achievement program is designed to provide both the technical and the theoretical knowledge of construction. This includes understanding of the International Building Code (IBC) and the Residential Building Code (RBC), as well as inspection of concrete, plumbing systems, electrical systems, mechanical systems, and ability to read blueprints. Students will have knowledge of applicable building codes and be prepared to take professional certification exams in the IBC and RBC. These skills are required to secure employment as a corporate in-house inspector, or an agency, city, county or state building and safety inspector.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate working knowledge of the locally adopted International Building Code and/or the Residential Building Code.
- Apply inspection techniques required in 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.

#### Required Courses

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.



## Catalog 2018-19 Revised – Page 130 Printed Catalog

### Current Digital Electronic Technology Associate in Science

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.

#### Required Courses:

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
<b>Total Units for the Major</b>		<b>22</b>

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

#### Associate in Science Degree

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

#### 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, CS 3A, CS 3B~~; MATH 7, MATH 124, ~~MATH 251~~, MATH 253; PHYS 2A, PHYS 2B, PHYS 20.

### Revised Digital Electronic Technology Associate of Science

This Digital Electronic Technology Associate of Science program primarily prepares students for entry-level employment as electronic technicians in companies involved in the manufacture, testing, installation, and repair of digital computers and related equipment. The program also provides skill updating and upgrading for persons already employed in the electronics industry or related fields. Courses cover a variety of discrete and integrated circuits, with emphasis on digital electronics, plus hardware and software for personal computers. Possible careers for electronic technicians with this degree include field service technician, medical equipment technician, computer test technician, and digital electronics and equipment sales.

#### 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.

#### Required Courses:

Course ID	Title	Units
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
CMT 220	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3
<b>Total Units for the Major</b>		<b>22</b>

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

#### Associate of Science 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 of Science 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.

Suggested coursework not required for the major: CIM 10, CMT 230; MATH 7, MATH 124, MATH 253; PHYS 2A, PHYS 2B, PHYS 20; Any Electronic Technology course not taken in degree such as ET 118, ET 201, ET 202.

## Catalog 2018-19 Revised – Page 131 Printed Catalog

### Current Digital Electronic Technology Certificate of Achievement

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.

#### Required Courses:

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 Certificate 22**

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

### Revised Digital Electronic Technology Certificate of Achievement

This Digital Electronic Technology certificate program primarily prepares students for entry-level employment as electronic technicians in companies involved in the manufacture, testing, installation, and repair of digital computers and related equipment. The certificate also provides skill updating and upgrading for persons already employed in the electronics industry or related fields. Courses cover a variety of discrete and integrated circuits, with emphasis on digital electronics, plus hardware and software for personal computers. Possible careers for electronic technicians with this certificate include field service technician, medical equipment technician, computer test technician, and digital electronics and equipment sales.

#### 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.

#### Required Courses:

Course ID	Title	Units
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
CMT 220	Computer Maintenance and Repair I	3
CMT 225*	Computer Maintenance and Repair II	3

**Total Units for the Certificate 22**

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

## Catalog 2018-19 Revised – Page 127 Printed Catalog

### Current Drafting Technology Associate in Science

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.

#### Required Courses

Course ID	Title	Units
DR 23	Engineering Graphics	3
or		
DR 100	Fundamentals of Industrial and Mechanical Design	3
DR 50*	Introduction to Computer-Aided Drafting	3
or		
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
or		
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
<b>Total Units for the Major</b>		<b>36</b>

#### 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.

#### Associate Degree

##### Associate in Science Degree

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

##### 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 124A; CIM 1; CS 1A; GEOL 23/ENV 23; MATH 124, MATH 251, MATH 253, 255; PHYS 20.**

### Revised Drafting Technology Associate of Science

The Drafting Technology Associate of Science degree program includes courses designed to provide a general background and specialized skills to help the student find entry-level employment in government and private enterprise, especially where drafting skills are required. Main competencies include understanding CAD, Solidworks, and similar software programs, ability to draft and annotate drawings in 2D and 3D views, and ability to interpret and work from mechanical drawings. Students will be prepared to work as mechanical drafters, industrial design drafters, and manufacturing drafters.

#### 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.
- Discuss drafting techniques, drafting software languages, and digital visualization.

#### Required Courses

Course ID	Title	Units
DR 23	Engineering Graphics	3
or		
DR 100≤	Fundamentals of Industrial and Mechanical Design	3
DR 50*	Introduction to Computer-Aided Drafting	3
or		
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
or		
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 <u>one course</u> from Restricted Electives	3
<b>Total Units for the Major</b>		<b>33-36</b>

#### 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.

#### Associate Degree

##### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 127 Printed Catalog

### Current Drafting Technology Certificate of Achievement

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.

#### Required Courses

Course ID	Title	Units
DR 23	Engineering Graphics	3
or		
DR 100	Fundamentals of Industrial and Mechanical Design	3
DR 50*	Introduction to Computer-Aided Drafting	3
or		
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
or		
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.

### Revised Drafting Technology Certificate of Achievement

The Drafting Technology **Certificate of Achievement** program includes courses designed to provide a general background and specialized skills to help the student find **entry-level** employment in government and private enterprise, especially where drafting skills are required. **Main competencies include understanding CAD, Solidworks, and similar software programs, ability to draft and annotate drawings in 2D and 3D views, and ability to interpret and work from mechanical drawings. Students will be prepared to work as mechanical drafters, industrial design drafters, and manufacturing drafters.**

#### 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.
- **Discuss drafting techniques, drafting software languages, and digital visualization**

#### Required Courses

Course ID	Title	Units
DR 23	Engineering Graphics	3
or		
DR 100≤	Fundamentals of Industrial and Mechanical Design	3
DR 50*	Introduction to Computer-Aided Drafting	3
or		
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
or		
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 <b><u>one course</u></b> from Restricted Electives	3

**Total Units for the Certificate 33-36**

#### 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.



## Catalog 2018-19 Revised – Page 103 Printed Catalog

### CURRENT Early Childhood Teacher Certificate of Achievement

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.

#### Core Courses

Course ID	Title	Units
<del>ED-101*</del>	Principles and Practices of Teaching Young Children	3
<del>ED-105*</del>	Child, Family, and Community	3
<del>ED-107*</del>	Child Growth and Development	3
<del>ED-110*</del>	Introduction to <del>Early Childhood</del> Curriculum	3
<del>ED-111*</del>	Child Guidance and Communication	3
<del>ED-112*</del>	Health, Safety, and Nutrition	3
<del>ED-117*</del>	Teaching <del>Children</del> in a Diverse Society	3
<del>ED-120*</del>	Observation and Assessment	3

#### Supervised Field Experience Course

<del>ED-121*</del>	Practicum-The student teaching experience	5
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~~Lab placement must be in a setting that serves children ages 3-5.~~

#### General Education (16 units):

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

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

**Total Units for the Certificate** 45

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

### REVISED Early Childhood Teacher Certificate of Achievement

This certificate meets the education requirements of the Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CTC). Developmental and learning theory as well as appropriate strategies for teaching and caring for children ages birth to 8 will be studied and applied. Family collaboration, cultural sensitivity, and relationship based practice will be emphasized. This certificate prepares students to provide competent and effective care and instruction of children in an early care and education program, and supervise assistants, classroom aides and/or volunteers in a variety of children's settings. Additional work is required to obtain CTC's Teacher Permit. A minimum grade of "C" in each course is required to receive the certificate and/or qualify for the Child Development Permit.

### Program Student Learning Outcomes

Students who complete this program will be able to:

- Describe developmental milestones for children in the areas of physical, psycho-social, 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 0-8 years.
- Apply developmental theory, knowledge of child development, DCLAP (developmentally, culturally, linguistically appropriate practices), and demonstrate use of 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 to identify individual child needs and use that knowledge to plan appropriate curriculum.
- 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.

#### Core Courses

Course ID	Title	Units
<u>CDE 101*</u>	Principles and Practices of Teaching Young Children	3
<u>CDE 15*</u>	Child, Family, and Community	3
<u>CDE 7*</u>	Child Growth and Development	3
<u>Or</u>		
<u>CDE 7H*</u>	<u>Honors Child Growth and Development</u>	<u>3</u>
<u>CDE 110*</u>	Introduction to Curriculum	3
<u>CDE 111*</u>	Child Guidance and Communication	3
<u>CDE 112*</u>	Health, Safety, and Nutrition	3
<u>CDE 117*</u>	<u>Teaching in a Diverse Society</u>	3
<u>CDE 120*</u>	Observation and Assessment	3
<u>CDE 121*</u>	Practicum-The Student Teaching Experience	5
	<u>Select from Required Breadth</u>	<u>16-19</u>
	<b>Total Units for the Major:</b>	<b>45-48</b>

#### Required Breadth

Students must complete area 1, select one course from each of areas 2, 3, and 4, and select one additional course from area 2, 3, or 4.

Course ID	Title	Uni
<u>Area 1</u>		
<u>ENG 1A*</u>	<u>Principles of Composition I</u>	<u>4</u>
<u>Or</u>		
<u>ENG 1AH*</u>	<u>Honors Principles of Composition I</u>	<u>4</u>

## Catalog 2018-19 Revised – Page 103 Printed Catalog

### CURRENT Early Childhood Teacher Certificate of Achievement

### REVISED Early Childhood Teacher Certificate of Achievement

*continued*

<u>Area 2</u>		
<u>MATH 10*</u>	Introduction to Statistics	3
<u>Or</u>		
<u>MATH 14*</u>	Mathematics for Elementary School Teachers	5
<u>Or</u>		
<u>MATH 103*</u>	Mathematical Ideas	3
<u>Or</u>		
<u>PSYC 44*</u>	Statistics for the Behavioral Sciences	3
<u>Or</u>		
<u>ANTH 1</u>	Biological Anthropology	3
<u>Or</u>		
<u>ANTH 1H</u>	Honors Biological Anthropology	3
<u>Or</u>		
<u>ENV 18</u>	Introduction to Ecology	4
<u>Or</u>		
<u>GEOG 1</u>	Physical Geography	3
<u>Or</u>		
<u>GEOG 1H</u>	Honors Physical Geography	3
<u>Or</u>		
<u>GEO 1</u>	Introduction to Physical Geology	4
<u>Or</u>		
<u>GEO 20</u>	Introduction to Earth Science	4
<u>Or</u>		
<u>HORT 20</u>	Introduction to Horticultural Science	4
 <u>Area 3</u>		
<u>ANTH 2</u>	Cultural Anthropology	3
<u>Or</u>		
<u>ANTH 2H</u>	Honors Cultural Anthropology	3
<u>Or</u>		
<u>GEOG 2</u>	Cultural Geography	3
<u>Or</u>		
<u>GEOG 2H</u>	Honors Cultural Geography	3
<u>Or</u>		
<u>SOC 10</u>	Introduction to Marriage and the Family	3
<u>Or</u>		
<u>SOC 20</u>	Ethnic Cultures of the United States	3
<u>Or</u>		
<u>SOC 30</u>	Social Psychology	3
<u>Or</u>		
<u>PS 1</u>	American Government	3
<u>Or</u>		
<u>PS 1H</u>	Honors American Government	3
 <u>Area 4</u>		
<u>ENG 142*</u>	Children's Literature	3
<u>Or</u>		
<u>ARTH 20</u>	Art Appreciation	3
<u>Or</u>		
<u>MUS 1</u>	The Basics of Music	3
<u>Or</u>		
<u>MUS 20</u>	Music Appreciation	3
<u>Or</u>		
<u>DANC 64</u>	History of Dance	3
<u>Or</u>		
<u>HORT 115</u>	History of Landscape Design	3
<u>Or</u>		
<u>ID 110</u>	Fundamentals of Interior Design	3

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

## Catalog 2018-19 Revised – Page 101 Printed Catalog

### Current Associate in Arts in Elementary Teacher Education for Transfer Degree

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.

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
<b>Required Courses</b>		
<del>EDUC 90*</del>	Intro to Elementary Education	3
<del>CD 407</del>	Child Growth and Development	3
BIO 20	Introduction to Biology	4
CHEM 3*	Fundamental Chemistry	4
PHYS 20	The Ideas and Events of Physics	4
GEOL 20	Introduction to Earth Science	4
<del>MATH 112*</del>	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 1B	Principles of Composition II	3
ENG 170	Reasoning and College Reading	3

#### ~~Group B: Select one of the following courses (3 Units)~~

ANTH 20	Art Appreciation	3
MUS 20	Music Appreciation	3
TA 20	Theatre Appreciation	3

### Revised Associate in Arts in Elementary Teacher Education for Transfer Degree

Upon completion of the Associate in Arts in Elementary Teacher Education for Transfer degree, 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.

### 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.

### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
<b>Required Core</b>		
<del>CDE 90*</del>	Intro to Elementary Education	3
<del>CDE 7*</del>	Child Growth and Development	3
<b>Or</b>		
<del>CDE 7H*</del>	<b>Honors Child Growth and Development</b>	<b>3</b>
BIO 20	Introduction to Biology	4
CHEM 3*	Fundamental Chemistry	4
PHYS 20	The Ideas and Events of Physics	4
GEOL 20	Introduction to Earth Science	4
<del>MATH 14*</del>	Mathematics for Elementary School Teachers	5
SP 1	Communication Fundamentals	3
<b>Or</b>		
<del>SP 1H</del>	<b>Honors Communication Fundamentals</b>	<b>3</b>

## Catalog 2018-19 Revised – Page 101 Printed Catalog

### Current Associate in Arts in Elementary Teacher Education for Transfer Degree

*continued*

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

<b>ENG 142*</b>	<b>Children's Literature</b>	<b>3</b>
<b>ENG 17A*</b>	<b>Survey of English Literature—Beowulf to Romantic Movement</b>	<b>3</b>
<b>ENG 17B*</b>	<b>Survey of English Lit—Romantic Movement to the Present</b>	<b>3</b>
<b>ENG 15A*</b>	<b>Survey of American Literature—1620-1860</b>	<b>3</b>
<b>ENG 15B*</b>	<b>Survey of American Literature 1860-Contemporary</b>	<b>3</b>
<b>PHIL 1*</b>	<b>Introduction to Philosophy</b>	<b>3</b>
<b>PHIL 15*</b>	<b>Introduction to Ethics</b>	<b>3</b>
<b>HUM 1*</b>	<b>Introduction to Humanities</b>	<b>3</b>
<b>HUM 21*</b>	<b>The Search for Meaning—Ideas of Self Across Cultures</b>	<b>3</b>
<b>ANTH 3*</b>	<b>Culture and Language</b>	<b>3</b>
<b>Total Units for the Major:</b>		<b>58</b>

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

### Revised Associate in Arts in Elementary Teacher Education for Transfer Degree

*continued*

<b>ENG 1A*</b>	<b>Principles of Composition I</b>	<b>4</b>
<b>Or</b>		
<b>ENG 1AH*</b>	<b>Honors Principles of Composition I</b>	<b>4</b>
<b>ENG 25*</b>	<b>Introduction to Literature</b>	<b>3</b>
<b>GEOG 3</b>	<b>World Regional Geography</b>	<b>3</b>
<b>HIST 4</b>	<b>World History to 1500</b>	<b>3</b>
<b>HIST 16</b>	<b>History of the United States to 1876</b>	<b>3</b>
<b>PS 1</b>	<b>American Government</b>	<b>3</b>
<b>Or</b>		
<b>PS 1H</b>	<b>Honors American Government</b>	<b>3</b>

**Group A: Select one**

<b>ENG 1B*</b>	<b>Principles of Composition II</b>	<b>3</b>
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**Or**

<b>ENG 1BH*</b>	<b>Honors Principles of Composition II</b>	<b>3</b>
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<b>ENG 70*</b>	<b>Reasoning and College Reading</b>	<b>3</b>
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**Group B: Select one**

<b>ARTH 20</b>	<b>Art Appreciation</b>	<b>3</b>
<b>MUS 20</b>	<b>Music Appreciation</b>	<b>3</b>
<b>TA 20</b>	<b>Theatre Appreciation</b>	<b>3</b>
<b>Total Units for the Major:</b>		<b>55</b>

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



## Catalog 2018-19 Revised – Page 132 Printed Catalog

### Current

#### Engineering Associate in Science

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.

<i>Course ID</i>	<i>Title</i>	<i>Units</i>
<b><u>First Year</u></b>		
<b>CHEM 1A*</b>	<b>General Chemistry</b>	<b>5</b>
<b>CHEM 1B*</b>	<b>General Chemistry</b>	<b>5</b>
<b>CS 1A</b>	<b>Introduction to Computer Science</b>	<b>5</b>
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5

#### **Second Year**

<b>MATH 3C*</b>	<b>Analytic Geometry and Calculus</b>	<b>5</b>
<b>MATH 24*</b>	<b>Elementary Differential Equations</b>	<b>4</b>
<b>MATH 26*</b>	<b>Introduction to Linear Algebra</b>	<b>4</b>
<b>PHYS 4B*</b>	<b>General Physics</b>	<b>5</b>
<b>PHYS 4C*</b>	<b>General Physics</b>	<b>5</b>
<b>Total Units for the Major</b>		<b>35</b>

#### Associate in Science Degree

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

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

### Revision

#### Engineering Associate of Science

The curriculum in the Engineering Associate of Science 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 engineering fields, earning the Associate Degree would demonstrate achievement and may support employment as a technician in engineering related fields. Engineering companies constantly hire technicians. Students completing the engineering Associate of Science degree are prepared to transfer into: mechanical engineering, electrical engineering, civil engineering, and many other engineering degrees offered at California State Universities.

#### 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.

<i>Course ID</i>	<i>Title</i>	<i>Units</i>
MATH 3A*	Analytic Geometry and Calculus	5
<b><u>Or</u></b>		
<b>MATH 3AH*</b>	<b>Honors Analytic Geometry and Calculus</b>	<b>5</b>
PHYS 4A*	General Physics	5
MATH 3B*	Analytic Geometry and Calculus	5
<b>PHYS 4B*</b>	<b>General Physics</b>	<b>5</b>
<b>ENGR 31*</b>	<b>Statics</b>	<b>3</b>
<b>Total Units for the Major</b>		<b>23</b>

#### Associate of 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 of Science 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 has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

## Catalog 2018-19 Revised – Page 136 Printed Catalog

### Current Family and Consumer Sciences Associate in Science

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.

#### Required Courses

Course ID	Title	Units
FASH 31	Textiles	3
or		
<del>BUS 31</del>	<del>Textiles</del>	<del>3</del>
FASH 110*	Contemporary Clothing Construction	3
FCS 115	Consumer Issues	3
FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
ID 110	Fundamentals of Interior Design	3
ID 121*	Space Planning	3
	Select from Restricted Electives	6
<b>Total Units for the Major</b>		<b>27</b>

#### Restricted Electives

FASH 112*	Fashion Sewing--Advanced	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FCS 142	Life Management	3
FN 64	Nutrition Issues	3
FN 120*	<del>Contemporary</del> Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3
<del>FN 171</del>	<del>Sanitation and Safety</del>	<del>2</del>
<del>FN 210</del>	<del>ServSafe in Food Production</del>	<del>1</del>
<del>ID 122</del>	<del>History of Interior Architecture and Furnishings</del>	<del>3</del>
<del>ID 125</del>	<del>History of Interior Architecture and Furnishings II</del>	<del>3</del>

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

#### Associate Degree

##### Associate in Science Degree

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

##### 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: FASH 120, FASH 130, FASH 140, FM 140, FN 142, FN 171**

### Revised Family and Consumer Sciences Associate of Science

The Family and Consumer Sciences ~~A.S.~~ program is designed to develop ~~the~~ skills necessary for employment in the field of Home Economics ~~and Human Sciences. These skills involve learning how to efficiently manage a household including safe and healthful food preparation, household and small business budgeting, as well as the basics in interior design, space planning and clothing construction and selection. Electives provide additional skills as selected in areas of fashion, sewing, weight management, and communication and relationship skills.~~ 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 ~~enhance their marketability in these other fields.~~

The FCS degree allows students employment in a variety of venues including but not limited to independent living services, youth programs, community organizations, after-school programs, nonmedical senior care centers, programs for older adults, and self-improvement programs. Specific job titles include community or social service specialist, customer service representative, social and human service assistant, public relations specialist, store manager, youth counselor, program coordinator, and marketing specialist. Additionally, this degree prepares students for transfer into Family and Consumer Sciences majors.

#### 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.

#### Required Courses

Course ID	Title	Units
FASH 31	Textiles	3
FASH 110*	Contemporary Clothing Construction	3
FCS 115	Consumer Issues	3
FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
ID 110	Fundamentals of Interior Design	3
ID 121*	Space Planning	3
	Select <u>one course</u> from Restricted Electives	<u>3</u>
<b>Total Units for the Major</b>		<b>24</b>

#### Restricted Electives

FASH 112*	Fashion Sewing--Advanced	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FCS 142	Life Management	3
FN 64	Nutrition Issues <u>and Controversies</u>	3
FN 120*	<u>Sustainable</u> Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3

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

#### Associate Degree

##### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 137 Printed Catalog

### Current Family and Consumer Sciences Certificate of Achievement

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.

#### Required Courses

Course ID	Title	Units
FASH 31	Textiles	3
<b>or</b>		
<del>BUS 31</del>	<del>Textiles</del>	<del>3</del>
FASH 110*	Contemporary Clothing Construction	3
FCS 115	Consumer Issues	3
FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
ID 110	Fundamentals of Interior Design	3
ID 121*	Space Planning	3
	Select from Restricted Electives	<b>6</b>

**Total Units for the Certificate    27**

#### Restricted Electives

FASH 112*	Fashion Sewing--Advanced	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FCS 142	Life Management	3
FN 64	Nutrition Issues	3
FN 120*	<del>Contemporary</del> Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3
<del>FN 171</del>	<del>Sanitation and Safety</del>	<del>2</del>
<del>FN 210</del>	<del>ServSafe in Food Production</del>	<del>4</del>
<del>ID 122</del>	<del>History of Interior Architecture and Furnishings</del>	<del>3</del>
<del>ID 125</del>	<del>History of Interior Architecture and Furnishings II</del>	<del>3</del>

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

### Revised Family and Consumer Sciences Certificate of Achievement

The Family and Consumer Sciences Certificate of Achievement program is designed to develop the skills necessary for gainful employment in the field of Home Economics and Human Sciences. These skills involve learning how to efficiently manage a household including safe and healthful food preparation, household and small business budgeting, as well as the basics in interior design, space planning and clothing construction and selection. Electives provide additional skills as selected in areas of fashion, sewing, weight management, and communication and relationship skills. 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 enhance their marketability in these other fields.

The FCS certificate allows students employment in a variety of venues including but not limited to independent living services, youth programs, community organizations, after-school programs, nonmedical senior care centers, programs for older adults, and self-improvement programs. Specific job titles include: community or social service specialist, customer service representative, social and human service assistant, public relations specialist, store manager, youth counselor, program coordinator, and marketing specialist.

#### 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.

#### Required Courses

Course ID	Title	Units
FASH 31	Textiles	3
FASH 110*	Contemporary Clothing Construction	3
FCS 115	Consumer Issues	3
FN 50	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
ID 110	Fundamentals of Interior Design	3
ID 121*	Space Planning	3
	Select <u>one course</u> from Restricted Electives	<b>3</b>

**Total Units for the Certificate    24**

#### Restricted Electives

FASH 112*	Fashion Sewing--Advanced	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FCS 142	Life Management	3
FN 64	Nutrition Issues <u>and Controversies</u>	3
FN 120*	<u>Sustainable</u> Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3

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

## Catalog 2018-19 Revised – Page 141 Printed Catalog

### Current Fashion Merchandising Associate in Science

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.

#### Required Courses

Course ID	Title	Units
FASH 31	Textiles	3
or		
<del>BUS 31</del>	<del>Textiles</del>	<del>3</del>
FASH 101	Introduction to Fashion Careers	3
FASH 143	Fashion Buying and Merchandising	3
or		
<del>BUS 143</del>	<del>Fashion Buying and Merchandising</del>	<del>3</del>
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		
<del>BUS 147</del>	<del>Special Events Coordination and Promotion</del>	<del>3</del>
FASH 148	Visual Merchandising	3
or		
<del>BUS 148</del>	<del>Visual Merchandising</del>	<del>3</del>
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		
<del>BUS 145*\$</del>	<del>Internship</del>	<del>1</del>
and		
CWE 180*†	Co-Op-Ed Fashion	1
	Select one course from each Group	8
<b>Total Units for the Major</b>		<b>38</b>

#### Group 1

<del>BUS 136</del>	<del>Principles of Retailing</del>	<del>3</del>
<del>BUS 137</del>	<del>Professional Selling Fundamentals</del>	<del>3</del>
BUS 160	Entrepreneurship	3

#### Group 2

FASH 260*«	The Digital Fashion Image	2
or		
FASH 204«	Understanding Apparel Principles-AIMS Certification	1
and		
FASH 225«	Apparel Cart – Fashion Retailing Online with Easy Cart Shop	1

### Revised Fashion Merchandising Associate of Science

The Fashion Merchandising Associate of Science degree provides the student with a comprehensive academic foundation to pursue multiple fashion industry careers within the field of merchandising, marketing and management. Students will have opportunities to develop skills in Adobe suite, history of fashion trends, store planning and layout, event coordination, buying, selling and promoting goods, social media and e-commerce marketing. Students who complete this program will be prepared for entry level occupations such as: assistant buyer, visual merchandiser, fashion stylist, assistant merchandiser, boutique owner, retail manager, sales representative, event planner, personal shopper, and public relations assistant.

#### 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.

#### Required Core

Course ID	Title	Units
FASH 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 143	Fashion Buying and Merchandising	3
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
FASH 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 254	Fashion in Southern California	1
FASH 145*\$	Internship	1
and		
CWE 180*†	Co-Op-Ed Fashion	1
	Select one course from each Group	8
<b>Total Units for the Major</b>		<b>38</b>

#### Group 1

<del>BUS 105</del>	<del>Social Media Marketing</del>	<del>3</del>
<del>BUS 109</del>	<del>E-Commerce Marketing</del>	<del>3</del>
BUS 160	Entrepreneurship	3

#### Group 2

FASH 260*«	The Digital Fashion Image	2
or		
FASH 204«	Understanding Apparel Principles-AIMS 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



## Catalog 2018-19 Revised – Page 141 Printed Catalog

### Current Fashion Merchandising Associate ~~in~~ Science

*continued*

#### Group 3

FASH 100	Sewing for Fashion Design I	3
FASH 110*	Contemporary Clothing Construction	3

#### Optional Lab/Studio

<del>FASH 212</del>	<del>Construction Lab</del>	<del>1</del>
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\*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 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.

Suggested coursework not required for the major: BUS ~~12~~, 103, 125, ~~136~~, ~~137~~, 138; FCS 115, ~~GC 101~~.

### Revised Fashion Merchandising Associate of Science

*continued*

\*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 of Science 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 of Science 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.

Suggested coursework not required for the major: BUS 103, 125, **135**, 138, **150**; **CIMA 104**; FCS 115; **GD 140/ART 140, GD 147**.

## Catalog 2018-19 Revised – Page 143 Printed Catalog

### Current Fashion Merchandising Certificate of Achievement

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.

#### Required Courses

Course ID	Title	Units
FASH 31	Textiles	3
<b>or</b>		
<b>BUS 31</b>	<b>Textiles</b>	<b>3</b>
FASH 101	Introduction to Fashion Careers	3
FASH 143	Fashion Buying and Merchandising	3
<b>or</b>		
<b>BUS 143</b>	<b>Fashion Buying and Merchandising</b>	<b>3</b>
FASH 140	Fashion Image	3
<b>or</b>		
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 147	Special Events Coordination and Promotion	3
<b>or</b>		
<b>BUS 147</b>	<b>Special Events Coordination and Promotion</b>	<b>3</b>
FASH 148	Visual Merchandising	3
<b>or</b>		
<b>BUS 148</b>	<b>Visual Merchandising</b>	<b>3</b>
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 254	Fashion in Southern California	1
FASH 145*§	Internship	1
<b>or</b>		
<b>BUS 145*§</b>	<b>Internship</b>	<b>1</b>
<b>and</b>		
CWE 180*†	Co-Op-Ed Fashion	1
	Select one course from each Group	8

**Total Units for the Certificate 38**

#### Group 1

<b>BUS 136</b>	<b>Principles of Retailing</b>	<b>3</b>
<b>BUS 137</b>	<b>Professional Selling Fundamentals</b>	<b>3</b>
BUS 160	Entrepreneurship	3

#### Group 2

FASH 260*«	The Digital Fashion Image	2
<b>or</b>		

### Revised Fashion Merchandising Certificate of Achievement

The Fashion Merchandising Certificate of Achievement provides the student with a comprehensive academic foundation to pursue multiple fashion industry careers within the field of merchandising, marketing and management. Students will have opportunities to develop skills in Adobe suite, history of fashion trends, store planning and layout, event coordination, buying, selling and promoting goods, social media and e-commerce marketing. Students who complete this program will be prepared for entry level occupations such as: assistant buyer, visual merchandiser, fashion stylist, assistant merchandiser, boutique owner, retail manager, sales representative, event planner, personal shopper, and public relations assistant.

#### 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.

#### Required Core

Course ID	Title	Units
FASH 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
FASH 143	Fashion Buying and Merchandising	3
FASH 140	Fashion Image	3
<b>or</b>		
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 147	Special Events Coordination and Promotion	3
FASH 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 254	Fashion in Southern California	1
FASH 145*§	Internship	1
<b>and</b>		
CWE 180*†	Co-Op-Ed Fashion	1
	Select one course from each Group	8

**Total Units for the Certificate 38**

#### Group 1

<b>BUS 105</b>	<b>Social Media Marketing</b>	<b>3</b>
<b>BUS 109</b>	<b>E-Commerce Marketing</b>	<b>3</b>
BUS 160	Entrepreneurship	3

#### Group 2

FASH 260*«	The Digital Fashion Image	2
<b>or</b>		
FASH 204«	Understanding Apparel Principles-AIMS Certification	1
<b>and</b>		
FASH 225«	Apparel Cart – Fashion Retailing Online with Easy Cart Shop	1

## Catalog 2018-19 Revised – Page 143 Printed Catalog

### Current Fashion Merchandising Certificate of Achievement

*continued*

FASH 204«	Understanding Apparel Principles-AIMS 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

<del>FASH 212</del>	<del>Construction Lab</del>	<del>1</del>
<del>FASH 219</del>	<del>Dressmaking Lab</del>	<del>1</del>

\*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.~~

### Revised Fashion Merchandising Certificate of Achievement

*continued*

#### Group 3

FASH 100	Sewing for Fashion Design I	3
FASH 110*	Contemporary Clothing Construction	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.

«Take FASH 260 OR both FASH 204 and FASH 225.

## Catalog 2018-19 Revised – Page 145 Printed Catalog

### Current Foods Associate in Science

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.

#### Required Courses

Course ID	Title	Units
<b>FN 50</b>	<b>Fundamentals of Nutrition</b>	<b>3</b>
or		
<b>FN 205</b>	<b>Nutrition for Culinary Professionals</b>	<b>3</b>
FN 110*	Food Preparation Essentials	3
FN 120*	<b>Contemporary Meals</b>	3
FN 171	Sanitation and Safety	2
or		
FN 210	ServSafe in Food Production	1
<b>FN 232*</b>	<b>Techniques of Healthy Cooking</b>	<b>2</b>
FN 240*	Culinary Principles I	3
FN 244*	Baking Fundamentals I	3
FN 246*	Pantry	3
<b>FN 261†§</b>	<b>Internship</b>	<b>1</b>
and		
<b>CWE 180†</b>	<b>Co-Op-Ed Foods and Nutrition</b>	<b>2</b>
<b>FN 275</b>	<b>Food and Beverage Operations</b>	<b>3</b>
	<b>Select from Specialty Courses</b>	<b>6-7</b>

Total Units for the Major      **33-35**

#### Specialty Courses

<b>FN 142*</b>	<b>Classical French Cuisine</b>	<b>2</b>
<b>FN 173*</b>	<b>Catering and Banquets</b>	<b>3</b>
<b>FN 220*</b>	<b>French Bistro Cuisine</b>	<b>2</b>
<b>FN 222*</b>	<b>Chinese Cuisine</b>	<b>2</b>
<b>FN 223*</b>	<b>Asian Cuisine</b>	<b>2</b>
<b>FN 226*</b>	<b>Mexican Cuisine</b>	<b>2</b>
<b>FN 227*</b>	<b>Mediterranean Cuisine</b>	<b>2</b>
<b>FN 228*</b>	<b>Italian Cuisine</b>	<b>2</b>
<b>FN 232*</b>	<b>Techniques of Healthy Cooking</b>	<b>2</b>
<b>FN 236*</b>	<b>American Regional Cuisine</b>	<b>2</b>
<b>FN 241*</b>	<b>Culinary Principles II</b>	<b>3</b>
<b>FN 245*</b>	<b>Baking Fundamentals II</b>	<b>2</b>

\*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 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.

### Revised Foods Associate of Science

The Foods Associate of Science program is designed to train students for career applications in the food and hospitality industries such as cooks and food service workers in specialty restaurant operations, food and beverage service, fast foods operations, and food service in schools, day-care centers, and senior living facilities. The program also offers coursework for professional improvement. Upon completion students achieve competencies in a variety of cooking methods, professionalism, sanitation and various cuisines.

#### 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 nutrition habits impact on well-being.
- Demonstrate competence in food production.

#### Required Core

Course ID	Title	Units
FN 171❖	Sanitation and Safety	2
or		
FN 210❖	ServSafe in Food Production	1
FN 246*	Pantry	3
FN 120*	<b>Sustainable Meals</b>	3
FN 110*	Food Preparation Essentials	3
FN 240*	Culinary Principles I	3
<b>FN 241*</b>	<b>Culinary Principles II</b>	<b>3</b>
FN 244*	Baking Fundamentals I	3

Total Units for the Major      **18-20**

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

❖ Students with valid California ServSafe Certification may have this core requirement waived.

#### Associate of 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 of Science 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.



## Catalog 2018-19 Revised – Page 145 Printed Catalog

### Current Foods

#### Certificate of Achievement

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.

#### Required Courses

Course ID	Title	Units
<b>FN 50</b>	<b>Fundamentals of Nutrition</b>	<b>3</b>
or		
<b>FN 205</b>	<b>Nutrition for Culinary Professionals</b>	<b>3</b>
FN 110*	Food Preparation Essentials	3
FN 120*	<b>Contemporary</b> Meals	3
FN 171	Sanitation and Safety	2
or		
FN 210	ServSafe in Food Production	1
<b>FN 232*</b>	<b>Techniques of Healthy Cooking</b>	<b>2</b>
FN 240*	Culinary Principles I	3
FN 244*	Baking Fundamentals I	3
FN 246*	Pantry	3
<b>FN 261+§</b>	<b>Internship</b>	<b>4</b>
and		
<b>CWE 180†</b>	<b>Co-Op Ed Foods and Nutrition</b>	<b>2</b>
<b>FN 275</b>	<b>Food and Beverage Operations</b>	<b>3</b>
	<b>Select from Restricted Electives</b>	<b>6-7</b>

Total Units for the Certificate **33-35**

#### Restricted Electives

<b>FN 142*</b>	<b>Classical French Cuisine</b>	<b>2</b>
<b>FN 173*</b>	<b>Catering and Banquets</b>	<b>3</b>
<b>FN 220*</b>	<b>French Bistro Cuisine</b>	<b>2</b>
<b>FN 222*</b>	<b>Chinese Cuisine</b>	<b>2</b>
<b>FN 223*</b>	<b>Asian Cuisine</b>	<b>2</b>
<b>FN 226*</b>	<b>Mexican Cuisine</b>	<b>2</b>
<b>FN 227*</b>	<b>Mediterranean Cuisine</b>	<b>2</b>
<b>FN 228*</b>	<b>Italian Cuisine</b>	<b>2</b>
<b>FN 232*</b>	<b>Techniques of Healthy Cooking</b>	<b>2</b>
<b>FN 236*</b>	<b>American Regional Cuisine</b>	<b>2</b>
<b>FN 241*</b>	<b>Culinary Principles II</b>	<b>3</b>
<b>FN 245*</b>	<b>Baking Fundamentals II</b>	<b>2</b>

\*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.

### Revised Foods

#### Certificate of Achievement

The Foods Certificate of Achievement program is designed to train students for career applications in the food and hospitality industries in entry level positions with food companies such as cooks and food service workers in specialty restaurant operations, food and beverage service, fast foods operations, and food service in schools, day-care centers, and senior living facilities. The program offers coursework for professional improvement. Students will be provided with the essential skills of sanitation, foundational cooking and baking, operations, and production in order to reach their career goals and to be competitive in the global marketplace.

#### 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 and nutrition topic.
- Identify and demonstrate an awareness and appreciation for nutrition habits impact on well-being.
- Demonstrate competence in food production.

#### Required Core

Course ID	Title	Units
FN 171❖	Sanitation and Safety	2
or		
FN 210❖	ServSafe in Food Production	1
FN 246*	Pantry	3
FN 120*	<b>Sustainable</b> Meals	3
FN 110*	Food Preparation Essentials	3
FN 240*	Culinary Principles I	3
<b>FN 241*</b>	<b>Culinary Principles II</b>	<b>3</b>
FN 244*	Baking Fundamentals I	3

Total Units for the Certificate **18-20**

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

❖ Students with valid California ServSafe Certification may have this core requirement waived.

## Catalog 2018-19 Revised – Page 132 Printed Catalog

### Current General Electronic Technology Certificate of Achievement

~~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.

#### Required Courses:

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.

### Revised General Electronic Technology Certificate of Achievement

The General Electronic Technology certificate program primarily prepares the student for entry-level employment as an electronic technician in companies involved in the manufacture, testing, troubleshooting, and repair of electronics hardware. The program covers the fundamentals of electronics, including electronic components, circuits, test equipment, testing, and troubleshooting, with flexibility for the student to take some elective courses of personal interest. The certificate also provides skill updating and upgrading for persons already employed in the electronics industry or related fields. Possible careers for electronic technicians with this certificate include field service technician, medical equipment technician, test and calibration technician, and electronics sales.

#### 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.

#### Required Courses:

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
<b>CWE 180</b>	<b>Co-Op-Ed Electronic Technology</b>	<b>1</b>
<b>CWE 180</b>	<b>Co-Op-Ed Electronic Technology</b>	<b>2</b>

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

## Catalog 2018-19 Revised – Page 149 Printed Catalog

### Current

#### Associate in Arts in Geography for Transfer Degree

The curriculum in the Geography 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.

~~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 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

<u>Course ID</u>	<u>Title</u>	<u>Units</u>
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#### Required Courses (6-7)

GEOG 1	Physical Geography	3
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~~Or~~

GEOG 1	Physical Geography	3
--------	--------------------	---

And

GEOG 1L*	Physical Geography Laboratory	1
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GEOG 2	Cultural Geography	3
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**Group A:** Select two to three ~~of the following courses (6-8 Units)~~

GEOG 1L* <del>1</del>	Physical Geography Laboratory	1
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GEOG 3	World Regional Geography	3
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GEOG 38	California Geography	3
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GEOG 110	Introduction to Geographic Information Systems (GIS)	2
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GEOG 102	Geography Field Studies	1
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GEOG 106	Field Studies of Desert Regions	1
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GEOG 107	Field Studies of Mountain Areas	1
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GEOG 108	Field Studies <del>of Western North America</del>	2
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**Group B:** Select two of the following courses or any of the course from Group A not already used (6-10 Units)

CS 1B*	Introduction to Computer Science II	5
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MATH 3A*	Analytic Geometry and Calculus	5
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GEOL 20	Introduction to Earth Science	4
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PS 1	American Government	3
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### Revised

#### Associate in Arts in Geography for Transfer Degree

The curriculum in the Geography 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.

#### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.

<u>Course ID</u>	<u>Title</u>	<u>Units</u>
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#### Required Courses (6-7 Units)

GEOG 1	Physical Geography	3
--------	--------------------	---

And

GEOG 1L	Physical Geography Laboratory	1
---------	-------------------------------	---

Or

GEOG 1H	Honors Physical Geography	3
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And

GEOG 1L*	Physical Geography Laboratory	1
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GEOG 2	Cultural Geography	3
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Or

GEOG 2H	Honors Cultural Geography	3
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## Catalog 2018-19 Revised – Page 149 Printed Catalog

### Current Associate in Arts in Geography for Transfer Degree

*continued*

CHEM 1A*	General Chemistry	5
ANTH 2	Cultural Anthropology	3
GEOL 1	Introduction to Physical Geology	4

**Total Units for the Major 18-25**

~~± Course must be taken if not taken in the required core.~~

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

### Revised Associate in Arts in Geography for Transfer Degree

*continued*

**LIST A: Select two to three (6-7 Units)**

GEOG 3	World Regional Geography	3
GEOG 38	California Geography	3
GEOG 110	Introduction to Geographic Information Systems (GIS)	2

**Or**

**GIS 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	<b><u>Field Geography</u></b>	2
<b><u>GEOG 109</u></b>	<b><u>Field Studies of Coastal Regions</u></b>	<b><u>1</u></b>

**LIST B: Select two (6 Units) or Any List A course not already used**

CS 1B*	Introduction to Computer Science II	<b><u>3.5</u></b>
MATH 3A*	Analytic Geometry and Calculus	5

**Or**

**MATH 3AH\* Honors Analytic Geometry 5**

GEOL 20	Introduction to Earth Science	4
CHEM 1A*	General Chemistry	5
<b><u>MATH 10*</u></b>	<b><u>Introduction to Statistics</u></b>	<b><u>3</u></b>

**Or**

**PSYC 44\* Statistics for Behavioral Sciences 3**

ANTH 2	Cultural Anthropology	3
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**Or**

**ANTH 2H Honors Cultural Anthropology 3**

**Total Units for the Major 19-20**

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



## Catalog 2018-19 Revised – Page 151 Printed Catalog

### Current Gerontology Interdisciplinary Certificate of Achievement

The Gerontology Interdisciplinary Certificate focuses on the study of aging, the aging process, and working with older adults in a variety of capacities. Sociological, psychological, and biological aspects of aging are explored. This certificate aims to educate individuals about the field of aging, while also allowing them to complete coursework in other associated areas of interest. The goal of the certificate is to primarily equip students who are working toward completing (or have completed) related certificates, degrees, or programs, and/or work in the aging profession with foundational knowledge in gerontology. The interdisciplinary certificate allows students to choose elective courses that match pathways that fit within their current area of study. Career opportunities may include: business, marketing, environmental design, nutrition, nursing, medical assisting, health, wellness, recreation, fitness, food services/preparation, human services, senior communities, home health care, caregiving, horticulture, and travel/tourism. Additional certification, degrees, and/or training may be required for the fields listed depending on the employer and occupation.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain the key sociological, psychological, and biological concepts associated with the study of aging.
- Apply theoretical perspectives to analyze current and historical topics associated with the study of aging.
- Describe the physical, social, familial, and community support networks for diverse aging individuals.
- Demonstrate knowledge and skills in one of the suggested pathways of study within the interdisciplinary certificate program.

Course ID	Title	Units
<b>Required Core (3 Units)</b>		
SOC 180	Introduction to Gerontology	3
<b>Required Core (6 Units), Choose Two of the following:</b>		
SOC 125	Sociology of Aging	3
SOC 126	Death and Dying	3
PSYC 125*	Psychology of Aging	3
<b>Select from Restricted Electives:</b>		<b>3-4</b>
<b>TOTAL Units for the Certificate:</b>		<b>12-13</b>

**Restricted Electives** – Choose a minimum of 3-4 units based on the student's pathway:

#### Pathway 1 - Business

ACCT 120	Introduction to Financial Planning	3
BUS 16	Personal Law, Street Law	3
BUS 105	Social Media Marketing	3
BUS 135	Marketing	3
BUS 160	Entrepreneurship	3

#### Pathway 2 – Environmental Design

ARCH 124A	Architectural Drawing I	4
ARCH 219*	Residential and Commercial Space Planning	4
ID 210*	Hospitality Design	3
ID 214*	Bath Design	3
ID 215*	Kitchen Design	3

### Revised Gerontology Interdisciplinary Certificate of Achievement

The Gerontology Interdisciplinary Certificate focuses on the study of aging, the aging process, and working with older adults in a variety of capacities. Sociological, psychological, and biological aspects of aging are explored. This certificate aims to educate individuals about the field of aging, while also allowing them to complete coursework in other associated areas of interest. The goal of the certificate is to primarily equip students who are working toward completing (or have completed) related certificates, degrees, or programs, and/or work in the aging profession with foundational knowledge in gerontology. The interdisciplinary certificate allows students to choose elective courses that match pathways that fit within their current area of study. Career opportunities may include: business, marketing, environmental design, nutrition, nursing, medical assisting, health, wellness, recreation, fitness, food services/preparation, human services, senior communities, home health care, caregiving, horticulture, and travel/tourism. Additional certification, degrees, and/or training may be required for the fields listed depending on the employer and occupation.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Explain the key sociological, psychological, and biological concepts associated with the study of aging.
- Apply theoretical perspectives to analyze current and historical topics associated with the study of aging.
- Describe the physical, social, familial, and community support networks for diverse aging individuals.
- Demonstrate knowledge and skills in one of the suggested pathways of study within the interdisciplinary certificate program.

Course ID	Title	Units
<b>Required Core (3 Units)</b>		
SOC 180	Introduction to Gerontology	3
<b>Required Core (6 Units), Choose Two of the following:</b>		
SOC 125	Sociology of Aging	3
SOC 126	Death and Dying	3
PSYC 125*	Psychology of Aging	3
<b>Select from Restricted Electives:</b>		<b>3-4</b>
<b>TOTAL Units for the Certificate:</b>		<b>12-13</b>

**Restricted Electives** – Choose a minimum of 3-4 units based on the student's pathway:

#### Pathway 1 - Business

ACCT 120	Introduction to Financial Planning	3
BUS 16	Personal Law, Street Law	3
BUS 105	Social Media Marketing	3
BUS 135	Marketing	3
BUS 160	Entrepreneurship	3

#### Pathway 2 – Environmental Design

ARCH 124A	Architectural Drawing I	4
ARCH 219*	Residential and Commercial Space Planning	4
ID 210*	Hospitality Design	3
ID 214*	Bath Design	3
ID 215*	Kitchen Design	3

## Catalog 2018-19 Revised – Page 151 Printed Catalog

### Current Gerontology Interdisciplinary Certificate of Achievement

*continued*

<b>FN 50</b>	<b>Fundamentals of Nutrition</b>	<b>3</b>
<b>FN 110*</b>	<b>Food Preparation Essentials</b>	<b>3</b>
<b>FN 169*</b>	<b>Lifecycle Nutrition</b>	<b>3</b>
<b>FN 210</b>	<b>ServSafe in Food Production</b>	<b>1</b>
<b>FN 232*</b>	<b>Techniques of Healthy Cooking</b>	<b>2</b>
<b>FN 246*</b>	<b>Pantry</b>	<b>3</b>

#### Pathway 3 – Health and Well-Being

HLTH 1	Contemporary Health Issues	3
HLTH 2	First AID, CPR, and Automated External Defibrillator	1.5
HLTH 3	Women's Health Issues	3
HSC/KNEA 151	Intro to Therapy and Career Exploration of Rehabilitation	3
KNES 60*	Anatomy and Fundamentals of Yoga	3

#### Pathway 4 – Health Sciences

HIT 101	Alternative Healthcare Delivery Systems	2
HSC 106	Legal and Ethical Aspects of Health Information	3
HSC 291	Management of Aggressive Behavior in Healthcare Settings	0.5
MA 206	Introduction to Medical Assisting	3
N 204	Beginning Nursing Concepts	2

#### Pathway 5 – Human Services

HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Populations in the United States	3
HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 220	Benefits and Entitlement	3

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

### Revised Gerontology Interdisciplinary Certificate of Achievement

*continued*

#### Pathway 3 – Foods/Nutrition

<b>FN 50</b>	<b>Fundamentals of Nutrition</b>	<b>3</b>
<b>FN 110*</b>	<b>Food Preparation Essentials</b>	<b>3</b>
<b>FN 169*</b>	<b>Lifecycle Nutrition</b>	<b>3</b>
<b>FN 210</b>	<b>ServSafe in Food Production</b>	<b>1</b>
<b>FN 232*</b>	<b>Techniques of Healthy Cooking</b>	<b>2</b>
<b>FN 246*</b>	<b>Pantry</b>	<b>3</b>

#### Pathway 4 – Health and Well-Being

HLTH 1	Contemporary Health Issues	3
HLTH 2	First AID, CPR, and Automated External Defibrillator	1.5
HLTH 3	Women's Health Issues	3
HSC/KNEA 151	Intro to Therapy and Career Exploration of Rehabilitation	3
KNES 60*	Anatomy and Fundamentals of Yoga	3

#### Pathway 5 – Health Sciences

HIT 101	Alternative Healthcare Delivery Systems	2
HSC 106	Legal and Ethical Aspects of Health Information	3
HSC 291	Management of Aggressive Behavior in Healthcare Settings	0.5
MA 206	Introduction to Medical Assisting	3
N 204	Beginning Nursing Concepts	2

#### Pathway 6 – Human Services

HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Populations in the United States	3
HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 220	Benefits and Entitlement	3

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

## Catalog 2018-19 Revised – Page 153 Printed Catalog

### Current Graphic Communications Associate in Science

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

Students who complete this program will be able to:

- 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~~

#### Required Courses

Course ID	Title	Units
GC 63	Introduction to Screen Printing	3
or		
ART 63	Introduction to Screen Printing	3
GC 101	Introduction to Graphic Communication	3
GC 106*	Advanced Screen Printing	3
GC 195*	Graphics Studio	3
<del>GC 210</del>	<del>Letterpress</del>	<del>3</del>
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3
<b>Total Units for the Major</b>		<b>27</b>

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

#### Associate in Science Degree

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

#### 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: GD 140/ART 140, ART 141, ART 142.**

### Revised Graphic Communications Associate of Science

The Graphic Communications Associate of Science degree program includes traditional and digital printing and applications, linking design and technology. Coursework prepares students for entry-level employment typically found in the graphic communications field, including digital and traditional printing and prepress technician, designer, surface designer, textile and clothing printing including silk screen and sublimation, textile designer, printing press operator, and related print and digital media. The discipline focuses on creation, production, and reproduction, in printed and digital form. The program also provides coursework for professionals interested in upgrading skills and receiving an associate degree in the field.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Use fundamental traditional and digital design, production, and reproduction skills for commercial graphic communication and new media
- Select and use appropriate production software and hardware technology
- Demonstrate skills typically found in the commercial traditional and digital print and media industry

#### Required Core

Course ID	Title	Units
GC 63	Introduction to Screen Printing	3
or		
ART 63	Introduction to Screen Printing	3
GC 101	Introduction to Graphic Communication	3
GD 147	Introduction to Computer Graphics	3
GD 144	Typography	3
GC 106*	Advanced Screen Printing	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3
GC 195*	Graphics Studio	3
<del>GD 160*</del>	<del>Professional Practices for Graphic Designers</del>	<del>3</del>
<del>CWE 180</del>	<del>Co-Op-Ed Graphics</del>	<del>1</del>
<del>GC 215</del>	<del>Introduction to Vehicle Wrap Design and Application</del>	<del>1</del>
<b>Total Units for the Major</b>		<b>29</b>

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 154 Printed Catalog

### Current Graphic Communications Certificate of Achievement

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

Students who complete this program will be able to:

- 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~~

#### Required Courses

Course ID	Title	Units
GC 63	Introduction to Screen Printing	3
or		
ART 63	Introduction to Screen Printing	3
GC 101	Introduction to Graphic Communication	3
GC 106*	Advanced Screen Printing	3
GC 195*	Graphics Studio	3
<del>GC 210</del>	<del>Letterpress</del>	<del>3</del>
GD 144	Typography	3
GD 147	Introduction to Computer Graphics	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3

**Total Units for the Certificate    27**

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

### Revised Graphic Communications Certificate of Achievement

The Graphic Communications Certificate of Achievement program includes traditional and digital printing and applications, linking design and technology. Coursework prepares students for entry-level employment typically found in the graphic communications field, including digital and traditional printing and prepress technician, designer, surface designer, textile and clothing printing including silk screen and sublimation, textile designer, printing press operator, and related print and digital media. The discipline focuses on creation, production, and reproduction, in printed and digital form. The program also provides coursework for professionals interested in upgrading skills and/or receiving certification in the field.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Use fundamental traditional and digital design, production, and reproduction skills for commercial graphic communication and new media
- Select and use appropriate production software and hardware technology
- Demonstrate skills typically found in the commercial traditional and digital print and media industry

#### Required Core

Course ID	Title	Units
GC 63	Introduction to Screen Printing	3
or		
ART 63	Introduction to Screen Printing	3
GC 101	Introduction to Graphic Communication	3
GD 147	Introduction to Computer Graphics	3
GD 144	Typography	3
GC 106*	Advanced Screen Printing	3
GD 151	Digital Layout and Design	3
GD 154*	Digital Pre-Press	3
GC 195*	Graphics Studio	3
<b>GD 160*</b>	<b>Professional Practices for Graphic Designers</b>	<b>3</b>
<b>CWE 180</b>	<b>Co-Op-Ed Graphics</b>	<b>1</b>
<b>GC 215</b>	<b>Introduction to Vehicle Wrap Design and Application</b>	<b>1</b>

**Total Units for the Certificate    29**

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



## Catalog 2018-19 Revised – Page 153 Printed Catalog

### Current Graphic Design Associate in Science

~~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

#### Required Courses

Course ID	Title	Units
GD 140	Beginning Graphic Design	3
or		
ART 140	Beginning Graphic Design	3
GD 142	Package Design	3
or		
ART 142	Package Design	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 154*	Digital Pre-Press	3
GD 200	Photoshop Skills for Graphic Designers	3
GD 240	Intermediate Graphic Design	3
or		
ART 240*	Intermediate Graphic Design	3
CWE 180	Co-Op-Ed-Graphics	1

**Total Units for the Major      28**

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

#### Associate in Science Degree

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

#### 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 40, ART 41, ART 80, ART 85, GC 101.**

### Revised Graphic Design Associate of Science

The Associate of Science in Graphic Design program prepares students for entry-level careers in the graphic design field, such as graphic designer, production artist, package designer, or product designer. The program also provides coursework for professionals interested in upgrading skills and/or receiving certification in the field. The study encompasses all phases of the design processes from origination of the idea (design, layout, and typography) through reproduction, finishing and distribution.

#### 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

#### Required Core

Course ID	Title	Units
<b>GD 2</b>	<b>History of Graphic Design</b>	<b>3</b>
GD 140	Beginning Graphic Design	3
or		
ART 140	Beginning Graphic Design	3
GD 142	Package Design	3
or		
ART 142	Package Design	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 154*	Digital Pre-Press	3
<b>GD 160*</b>	<b>Professional Practices for Graphic Designers</b>	<b>3</b>
GD 200	Photoshop Skills for Graphic Designers	3
GD 240*	Intermediate Graphic Design	3
or		
ART 240*	Intermediate Graphic Design	3
CWE 180	Co-Op-Ed-Graphics	1

**Total Units for the Major      34**

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 155 Printed Catalog

### Current Graphic Design Certificate of Achievement

~~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

#### Required Courses

Course ID	Title	Units
GD 140	Beginning Graphic Design	3
or		
ART 140	Beginning Graphic Design	3
GD 142	Package Design	3
or		
ART 142	Package Design	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 154*	Digital Pre-Press	3
GD 200	Photoshop Skills for Graphic Designers	3
GD 240	Intermediate Graphic Design	3
or		
ART 240*	Intermediate Graphic Design	3
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.

### Revised Graphic Design Certificate of Achievement

**The Certificate of Achievement in Graphic Design program** prepares students for **entry-level** careers typically found in the graphic design field, such as graphic designer, production artist, package designer, or product designer. **The program also provides coursework for professionals interested in upgrading skills and/or receiving certification in the field.** The study encompasses all phases of the design processes from origination of the idea (design, layout, and typography) through reproduction, finishing and distribution.

#### 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

#### Required Core

Course ID	Title	Units
<b>GD 2</b>	<b>History of Graphic Design</b>	<b>3</b>
GD 140	Beginning Graphic Design	3
or		
ART 140	Beginning Graphic Design	3
GD 142	Package Design	3
or		
ART 142	Package Design	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 154*	Digital Pre-Press	3
<b>GD 160*</b>	<b>Professional Practices for Graphic Designers</b>	<b>3</b>
GD 200	Photoshop Skills for Graphic Designers	3
GD 240*	Intermediate Graphic Design	3
or		
ART 240*	Intermediate Graphic Design	3
CWE 180	Co-Op-Ed-Graphics	1

**Total Units for the Certificate 34**

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

## Catalog 2018-19 Revised – Page 157 Printed Catalog

### Current Health Sciences Associate in Arts

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  
 •HSC 201, 217\*, 222, 223\*, 226\*, 227\*, 228, 291  
 •MA 211A/B, 212A/B, 213A/B, 214B, 217A\*/B\*/C\*, 218B  
 •N 160\*, 161, 162\*, 165, 170\*, 171\*, 172\*, 173\*, 174\*, 176\*, 202\*, 238\*, 245\*, 263, 264\*, 265\*  
 •PHLB 240\*  
 •PM 220\*, 230\*, 240\*

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

#### Associate in Arts Degree

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

#### 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.

### Revised Health Sciences Associate of Science

The Health Sciences Associate Degree program is designed to provide students the opportunity to explore their interest in health, health care and related fields through a variety of classes. The program may lead to a range of general health employment opportunities in areas such as Nursing Assistant, Home Health Aide or Medical Assisting. This associate degree is an initial educational step that may support attempts to gain entry-level employment or promotion. A baccalaureate or higher degree is recommended for those considering professional careers such as Health Sciences, Health Care Management/Administration, Public Health, and other pre-professional Allied Health Programs.

Courses identified within the "Required Core" may have limitations on enrollments depicted by an asterisk symbol (\*). It is strongly advised that students reference the course descriptions in the Saddleback College catalog or consult with a counselor for assistance in outlining an educational plan to achieve this degree.

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 Registered Nurse Associate in Science.

#### 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.

**Required Core:** Select 18 Units from the following courses:

Course ID	Title	Units
BIO 11*	Human Anatomy	4
BIO 12*	Human Physiology	4
BIO 15*	General Microbiology	5
BIO 20	Introduction to Biology	4
BIO 113	Human Anatomy and Physiology	4
CHEM 3*	Fundamental Chemistry	4
CHEM 1A*	General Chemistry	5
CHEM 108	Introduction to General, Organic, and Biochemistry	4
EMT 207*	Emergency Medical Technician Procedures	11
<u>And</u>		
EMT 207C*	Emergency Medical Technician Clinical Observation	1
EMT 210*	Emergency Medical Technician Refresher Course	1.5
EMT 219*	Paramedic Preparation	4
FN 50	Fundamentals of Nutrition	3
FN 161*	Nutrition for Health Occupations	2
HIT 100*	Health Information Science	2
HIT 109*	ICD Diagnostic Coding	3
HIT 111*	Health Information Technologies (HCIT)	3
HIT 116*	Performance Improvement in Healthcare	3
HIT 119*	Management of Resources in Healthcare	3
HIT 130*	Directed Practice	4
HLTH 1	Contemporary Health Issues	3
HLTH 2	First Aid, CPR, and Automated External Defibrillator	1.5
HLTH 3	Women's Health Issues	3
HSC 104	Medical Terminology	3
HSC 217	Cardiac Dysrhythmias	2

## Catalog 2018-19 Revised – Page 157 Printed Catalog

### Current Health Sciences Associate in Arts

### Revised Health Sciences Associate of Science

*continued*

HSC 226*	Advanced Cardiac Life Support	2
HSC 227*	Pediatric Advanced Life Support	2
HSC 228	Calculations for Medication Administration	1
HSC 291	Management of Aggressive Behavior in Healthcare Settings	.50
KNEA 151	Intro to Therapy and Career Exploration of Rehabilitation	3
<u>Or</u>		
HSC 151	Intro to Therapy and Career Exploration of Rehabilitation	3
MA 206	Introduction to Medical Assisting	3
MA 211B	Physical-Examination Procedures	3
MA 212B	Medical Office Laboratory Procedures	3
MA 213B*	Medical Asepsis and Surgical Procedures	3
MA 214B	Medication Administration for Medical Assistants	3
MA 218B	Electrocardiography for the Medical Assistant	3
MLT 210	Introduction to the Clinical Laboratory Profession	1
MLT 211*	Basic Laboratory Procedures	1
N 160*	Pharmacology for Nursing	3
N 165	Lifecycle 1, Fundamentals of Aging	1.5
N 161	Lifecycle 2, Growth and Development	1.5
N 204	Beginning Nursing Concepts	2
N 212	Laboratory Values, Interpretation And Application	1.5
N 280	Nursing Careplans and Maps	1
PHLB 240	Phlebotomy	4

Total Units for the Major: 18

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

#### Associate of Science 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 of Science 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.



## Catalog 2018-19 Revised – Page 159 Printed Catalog

### Current 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 for Transfer (AA-T) degree in History 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.

- ~~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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 for the major or area of emphasis.~~

Course ID	Title	Units
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#### Required Courses

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 1500	3
HIST 5	World History since 1500	3

#### Group B: Select one course from each area (6 units)

##### Area 1:

HIST 21	Women in United States History - A Multicultural Perspective	3
HIST 27	Latin America - Pre-European to Independent Nationhood	3
HIST 28	Latin America - 1800 to the Present	3
<del>HIST 29</del>	<del>Film and History in Latin America</del>	<del>3</del>
HIST 33	Chicano – Latino American History	3
HIST 62	European History to 1650	3
HIST 70	History of Asia to 1800	3
<del>HIST 71</del>	<del>History of Asia since 1800</del>	<del>3</del>
HIST 72	History of China	3
HIST 74	History of the Middle East to 1800	3
HIST 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3

##### Area 2:

ANTH 2	Cultural Anthropology	3
ANTH 3*	Culture and Language	3
ANTH 5	Anthropology of Latin American-Culture, Identity, And Power	3

### Revised 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 for Transfer (AA-T) degree in History 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.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Understand 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.
- Think critically about 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.
- Understand the difference between opinions and substantiated scholarly claims.
- 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.

#### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.

## Catalog 2018-19 Revised – Page 159 Printed Catalog

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

*continued*

HIST 11	Perspectives of Peace Studies	3
HIST 15	The Vietnam War	3
HIST 19	United States since 1945	3
HIST 20	Ethnic Cultures of the United States	3
HIST 30	History of Mexico	3
HIST 32	California History	3
HIST 61	History and Politics of Russia – Soviet Period to the Present	3
HIST 63	European History since 1650	3
HIST 75	Introduction to the Contemporary Middle East	3
SOC 1	Introduction to Sociology	3
SOC 2	Social Problems	3
<b>Total Units for the Major:</b>		<b>18</b>

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

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

*continued*

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
<b>Required Courses</b>		
HIST 16	History of the United States to 1876	3
HIST 17	History of the United States since 1876	3
<b>List A: (6 units)</b>		
HIST 4	World History to 1500	3
HIST 5	World History since 1500	3
<b>List B: Select one course from each area (6 units)</b>		
<b>Area 1 Diversity: (3 Units)</b>		
HIST 62	European History to 1650	3
<b>HIST 12</b>	<b>Revolutions and Revolts</b>	<b>3</b>
HIST 21	Women in United States History - A Multicultural Perspective	3
HIST 27	Latin America - Pre-European to Independent Nationhood	3
HIST 28	Latin America - 1800 to the Present	3
HIST 33	Chicano – Latino American History	3
HIST 70	History of Asia to 1800	3
HIST 72	History of China	3
HIST 74	History of the Middle East to 1800	3
HIST 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3
<b>Area 2: (3 Units) Any history course or any non-history course from the humanities or social sciences related to history.</b>		
ANTH 2	Cultural Anthropology	3
<b>Or</b>		
<b>ANTH 2H</b>	<b>Honors Cultural Anthropology</b>	<b>3</b>
ANTH 3*	Culture and Language	3
ANTH 5	Anthropology of Latin America-Culture, Identity, And Power	3
HIST 11	Perspectives of Peace Studies	3
HIST 15	The Vietnam War	3
HIST 19	United States since 1945	3
HIST 20	Ethnic Cultures of the United States	3
HIST 30	History of Mexico	3
HIST 32	California History	3
HIST 61	History and Politics of Russia – Soviet Period to the Present	3
HIST 63	European History since 1650	3
<b>HIST 71</b>	<b>History of Asia since 1800</b>	<b>3</b>
HIST 75	History of the Modern Middle East	3
SOC 1	Introduction to Sociology	3
SOC 2	Social Problems	3
<b>Total Units for the Major:</b>		<b>18</b>

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

## Catalog 2018-19 Revised – Page 160 Printed Catalog

### Current Horticulture Associate in Science

~~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.

#### Required Courses:

Course ID	Title	Units
HORT 10	Plant Materials— <del>Herbaceous Plants</del>	3
HORT 11	Plant Materials— <del>Trees and Shrubs</del>	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
	Select one course from each Group	4-6

#### Group I:

<del>HORT 7</del>	<del>Introduction to Landscape Design</del>	<del>3</del>
<del>HORT 115</del>	<del>History of Landscape Design</del>	<del>3</del>

#### Group II:

CWE 180†	<del>Cooperative Work Experience:</del> <del>Horticulture</del>	<del>1</del>
<del>HORT 116</del>	<del>Irrigation Systems</del>	<del>3</del>
HORT 166	<del>Ornamental</del> Native Plants	3
<del>HORT 216*</del>	<del>Advanced Irrigation Design</del>	<del>3</del>

Total Units for the Major    **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**.

#### 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 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.

~~Suggested coursework not required for the major: BUS 1, BUS 120, BUS 137, CIM 1, HORT 208, 209, SPAN 1~~

### Revised Sustainable Horticulture Associate of Science

Sustainability is a key component of the Horticulture Program. Sustainable horticulture is among several fields of study that are uniquely poised to capture opportunities presented by the expanding Green Industry and an increasing awareness of the need to preserve and protect limited resources. The Sustainable Horticulture Associate of Science degree program is based on horticultural science and technology, and prepares students for careers such as community, residential, and urban farm planning and design, organic grower, arborist, nursery management, nursery sales, nursery support, pest control adviser, and creation of gardens for human well-being and therapy. Careers also include opportunities related to the production and care of ornamental herbaceous plants, trees, shrubs, fruits, nuts, and vegetables commonly used in landscape design, urban farming, therapeutic gardens, and plant nurseries. Students, who may pursue being a certified arborist by the State of California, may also elect to take HORT 144 to prepare for the C27 Landscape Contractor Licensing Exam.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Grow and maintain ornamental plant materials, based on principles of sustainable propagation.
- Identify local plant materials, especially, those well adapted to local conditions including herbaceous ground covers, trees, shrubs, and California natives.
- Identify plants contributing to local ecologies and habitats.

#### Required Courses:

Course ID	Title	Units
HORT 10	Plant Materials— <u>Ornamental</u>	3
HORT 11	Plant Materials— <u>Edibles</u>	3
HORT 20	Introduction to Horticultural Science	4
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
HORT 120	Integrated Pest Management	3
	Select one course from each Group	<u>3-6</u>

#### Group 1:

<del>HORT 110</del>	<del>Introduction to Urban Farming</del>	<del>3</del>
<del>HORT 111</del>	<del>Introduction to Permaculture</del>	<del>2</del>
<del>HORT 138</del>	<del>The Sustainable Landscape</del>	<del>3</del>
<del>HORT 144</del>	<del>Licensure for the Landscape Contractor</del>	<del>2</del>

#### Group 2:

<del>HORT 140</del>	<del>Business Aspects in Horticulture and Landscape</del>	<del>3</del>
HORT 166	Native Plants <u>in the Urban Landscape</u>	2
<del>HORT 238</del>	<del>Introduction to Horticulture Therapy</del>	<del>3</del>
CWE 180†	<u>Co-Op-Ed-Hort &amp; Landscape</u>	1

Total Units for the Major    **22-25**

†CWE 180 should be taken after completing at least 9 units of the Sustainable Horticulture program.

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 161 Printed Catalog

### Current Horticulture Certificate of Achievement

~~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.

#### Required Courses:

Course ID	Title	Units
HORT 10	Plant Materials- <del>Herbaceous Plants</del>	3
HORT 11	Plant Materials- <del>Trees and Shrubs</del>	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
	Select one course from each Group	4-6

#### Group I:

<del>HORT 7</del>	<del>Introduction to Landscape Design</del>	<del>3</del>
<del>HORT 115</del>	<del>History of Landscape Design—Ancient Through 19<sup>th</sup> Century</del>	<del>3</del>
<del>HORT 145</del>	<del>Planting Design with Native Plants</del>	<del>3</del>

#### Group II:

CWE 180†	Co-Op-Ed-Hort & Landscape	1
<del>HORT 116</del>	<del>Irrigation Design Fundamentals</del>	<del>3</del>
HORT 166	<del>Ornamental</del> Native Plants <del>Identification</del>	3
<del>HORT 216*</del>	<del>Irrigation Plans and Details with CAD</del>	<del>3</del>

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.~~

### Revised Sustainable Horticulture Certificate of Achievement

Sustainability is a key component of the Horticulture Program. Sustainable horticulture is among several fields of study that are uniquely poised to capture opportunities presented by the expanding Green Industry and an increasing awareness of the need to preserve and protect limited resources. The Sustainable Horticulture Certificate of Achievement program is based on horticultural science and technology, and prepares students for careers such as community, residential, and urban farm planning and design, organic grower, arborist, nursery management, nursery sales, nursery support, pest control adviser, and creation of gardens for human well-being and therapy. Careers also include opportunities related to the production and care of ornamental herbaceous plants, trees, shrubs, fruits, nuts, and vegetables commonly used in landscape design, urban farming, therapeutic gardens, and plant nurseries. Students, who may pursue being a certified arborist by the State of California, may also elect to take HORT 144 to prepare for the C27 Landscape Contractor Licensing Exam.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Grow and maintain ornamental plant materials, based on principles of sustainable propagation.
- Identify local plant materials, especially, those well adapted to local conditions including herbaceous ground covers, trees, shrubs, and California natives.
- Identify plants contributing to local ecologies and habitats.

#### Required Courses:

Course ID	Title	Units
HORT 10	Plant Materials- <del>Ornamental</del>	3
HORT 11	Plant Materials- <del>Edibles</del>	3
HORT 20	Introduction to Horticultural Science	4
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
HORT 120	Integrated Pest Management	3
	Select one course from each Group	3-6

#### Group 1:

<del>HORT 110</del>	<del>Introduction to Urban Farming</del>	<del>3</del>
<del>HORT 111</del>	<del>Introduction to Permaculture</del>	<del>2</del>
<del>HORT 138</del>	<del>The Sustainable Landscape</del>	<del>3</del>
<del>HORT 144</del>	<del>Licensure for the Landscape Contractor</del>	<del>2</del>

#### Group 2:

<del>HORT 140</del>	<del>Business Aspects in Horticulture and Landscape</del>	<del>3</del>
HORT 166	Native Plants <u>in the Urban Landscape</u>	2
<del>HORT 238</del>	<del>Introduction to Horticulture Therapy</del>	<del>3</del>
CWE 180†	Co-Op-Ed-Hort & Landscape	1

Total Units for the Certificate **22-25**

†CWE 180 should be taken after completing at least 9 units of the Sustainable Horticulture program.



## Catalog 2018-19 Revised – Page 164 Printed Catalog

### Current Human Services Generalist Associate in Science

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:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
Total Core Units for the Major:		15

#### Required Courses:

HS 110*	Field Instruction and Seminar I	3.5
HS 131	Multicultural and Diverse Populations In the United States	3
HS 150*	Field Instruction and Seminar II	3.5
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-Occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
Total Units for the Major:		37

### Revision Human Services Generalist Associate of Science

The Human Services (HS) Generalist Associate of Science program is designed to provide historical and current perspectives of the basic issues within the human services field. It is an introduction to the growing career options within the helping professions field including, but not limited to, social work, psychology, sociology, anthropology, community-based corrections, and more. This program provides an opportunity to explore and work with diverse populations including children, adolescents, adults, and older adults. The HS Generalist program will enable students to make informed decisions about career directions and will prepare students for an array of careers in the behavioral health and the helping professions. This program option combines the Human Services behavioral core skills training and supervised experiential learning in beginning and advanced practicums in diverse Human Services Generalist fieldwork settings. The HS Generalist program serves as a natural gateway to the Social Work profession and other behavioral health career options. It provides students with the knowledge and skills to help individuals, groups, communities, and organizations function at optimal levels.

Completion of the five (5) Human Services Core Courses are prerequisites for the application to the HS 110 Fieldwork and Seminar I (Beginning Practicum) and is required for the completion of the Human Services Generalist Program. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the HS Generalist Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled in the fall and spring semesters to inform students of the application process. Check the Human Services website or Facebook page for the dates and times.

The application process is competitive and completion of an application does not guarantee acceptance into the HS 110 Fieldwork & Seminar I (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the HS 110 Fieldwork & Seminar I (Beginning Practicum) course may self-enroll in the HS 150 Fieldwork & Seminar II (Advanced Practicum) course.

Potential Careers: Case Worker, Residential Manager/Monitor, Juvenile Court Liaison, Home Health Aide, Crisis Intervention Counselor, Community Organizer, Advocate, Community Action Worker, Gerontology Aide, Group Home Worker, and much more.

## Catalog 2018-19 Revised – Page 164 Printed Catalog

### Current Human Services Generalist Associate in Science *continued*

#### Restricted Electives:

<del>APSY 150</del>	Helping Relationships	3
HS 171	Substance Abuse – Intervention, Treatment and Recovery	3
HS 172*	Physiological Effects and Pharmacology Of Alcohol and Drugs	3
<del>HS 175</del>	<del>Substance Abuse Education, Prevention, and Intervention</del>	<del>3</del>
HS 187	Juvenile Violence, Gangs, and Victimization	3
HS 220	Benefits and Entitlement	3
PSYC 125*	Psychology of Aging	3
SOC 1	Introduction to Sociology	3
<del>SOC 2</del>	<del>Social Problems</del>	<del>3</del>
SOC 10	Introduction to Marriage and the Family	3
<del>SOC 20</del>	<del>Ethnic Cultures of the United States</del>	<del>3</del>

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

#### Associate in Science Degree

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

#### 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.

### Revision Human Services Generalist Associate of Science *continued*

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- **Engage human services intervention skills on a micro and macro level.**
- **Use Human Services behavioral core skills training and experiential learning in a human services setting.**
- **Impart effective rapport, and communication and attending skills.**

#### Core Courses:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
<del>HS 174</del>	<del>Case Administration, Crisis Intervention and Referral</del>	<del>3</del>
<del>HS 131</del>	<del>Multicultural and Diverse Populations In the United States</del>	<del>3</del>
<del>HS 177</del>	<del>Family Dynamics of Addiction and Abuse</del>	<del>3</del>
<del>HS 176*</del>	<del>Co-Occurring Disorders</del>	<del>3</del>
<del>HS 110*</del>	<del>Field Instruction and Seminar I</del>	<del>3.5</del>
<del>HS 150*</del>	<del>Field Instruction and Seminar II</del>	<del>3.5</del>
	Select from Restricted Electives:	3
	<b>Total Units for the Major:</b>	<b>37</b>
<b>Restricted Electives:</b>		
<del>HS 112*</del>	<del>Conflict Resolution and Mediation</del>	<del>3</del>
HS 172*	Physiological Effects and Pharmacology Of Alcohol and Drugs	3
HS 171	Substance Abuse – Intervention, Treatment and Recovery	3
HS 187	Juvenile Violence, Gangs, and Victimization	3
HS 220	Benefits and Entitlement	3
SOC 1	Introduction to Sociology	3
SOC 10	Introduction to Marriage and the Family	3
<del>COUN 150</del>	<del>Helping Relationships</del>	<del>3</del>
PSYC 125*	Psychology of Aging	3

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 166 Printed Catalog

### Current Human Services Generalist Certificate of Achievement

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:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
Total Core Units for the Certificate:		15

#### Required Courses:

HS 110*	Field Instruction and Seminar I	3.5
HS 131	Multicultural and Diverse Populations In the United States	3
HS 150*	Field Instruction and Seminar II	3.5
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-Occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
Select from Restricted Electives:		3
Total Units for the Certificate:		37

### Revision Human Services Generalist Certificate of Achievement

The Human Services (HS) Generalist Certificate of Achievement is a Career Technical Education program designed to provide historical and current perspectives of the basic issues within the human services field. It is an introduction to the growing career options within the helping professions field including, but not limited to, social work, psychology, sociology, anthropology, community-based corrections, and more. This program provides an opportunity to explore and work with diverse populations including children, adolescents, adults, and older adults. The HS Generalist program will enable students to make informed decisions about career directions and will prepare students for an array of careers in the behavioral health and the helping professions. This program option combines the Human Services behavioral core skills training and supervised experiential learning in beginning and advanced practicums in diverse Human Services Generalist fieldwork settings. The HS Generalist program serves as a natural gateway to the Social Work profession and other behavioral health career options. It provides students with the knowledge and skills to help individuals, groups, communities, and organizations function at optimal levels.

Completion of the five (5) Human Services Core Courses are prerequisites for the application to the HS 110 Fieldwork and Seminar I (Beginning Practicum) and is required for the completion of the Human Services Generalist Program. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the HS Generalist Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled in the fall and spring semesters to inform students of the application process. Check the Human Services website or Facebook page for the dates and times.

The application process is competitive and completion of an application does not guarantee acceptance into the HS 110 Fieldwork & Seminar I (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the HS 110 Fieldwork & Seminar I (Beginning Practicum) course may self-enroll in the HS 150 Fieldwork & Seminar II (Advanced Practicum) course.

Potential Careers: Case Worker, Residential Manager/Monitor, Juvenile Court Liaison, Home Health Aide, Crisis Intervention Counselor, Community Organizer, Advocate, Community Action Worker, Gerontology Aide, Group Home Worker, and much more.

## Catalog 2018-19 Revised – Page 166 Printed Catalog

### Current Human Services Generalist Certificate of Achievement

*continued*

#### Restricted Electives:

<del>APSY-150</del>	Helping Relationships	3
HS 171	Substance Abuse – Intervention, Treatment and Recovery	3
HS 172*	Physiological Effects and Pharmacology Of Alcohol and Drugs	3
<del>HS 175</del>	<del>Substance Abuse Education, Prevention, and Intervention</del>	<del>3</del>
HS 187	Juvenile Violence, Gangs, and Victimization	3
HS 220	Benefits and Entitlement	3
PSYC 125*	Psychology of Aging	3
SOC 1	Introduction to Sociology	3
<del>SOC 2</del>	<del>Social Problems</del>	<del>3</del>
SOC 10	Introduction to Marriage and the Family	3
<del>SOC 20</del>	<del>Ethnic Cultures of the United States</del>	<del>3</del>

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

### Revision Human Services Generalist Certificate of Achievement

*continued*

#### 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 a human services setting.
- Impart effective rapport, and communication and attending skills.

#### Core Courses:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 170	Alcohol and Other Drugs in our Society	3
HS 285	Ethical Issues and Client's Rights	3
<del>HS 174</del>	<del>Case Administration, Crisis Intervention and Referral</del>	<del>3</del>
<del>HS 131</del>	<del>Multicultural and Diverse Populations In the United States</del>	<del>3</del>
<del>HS 177</del>	<del>Family Dynamics of Addiction and Abuse</del>	<del>3</del>
<del>HS 176*</del>	<del>Co-Occurring Disorders</del>	<del>3</del>
<del>HS 110*</del>	<del>Field Instruction and Seminar I</del>	<del>3.5</del>
<del>HS 150*</del>	<del>Field Instruction and Seminar II</del>	<del>3.5</del>
	Select from Restricted Electives:	<u>3</u>
	<b>Total Units for the Certificate:</b>	<b>37</b>
<b>Restricted Electives:</b>		
<del>HS 112*</del>	<del>Conflict Resolution and Mediation</del>	<del>3</del>
HS 172*	Physiological Effects and Pharmacology Of Alcohol and Drugs	3
HS 171	Substance Abuse – Intervention, Treatment and Recovery	3
HS 187	Juvenile Violence, Gangs, and Victimization	3
HS 220	Benefits and Entitlement	3
SOC 1	Introduction to Sociology	3
SOC 10	Introduction to Marriage and the Family	3
<del>COUN 150</del>	<del>Helping Relationships</del>	<del>3</del>
PSYC 125*	Psychology of Aging	3

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



## Catalog 2018-19 Revised – Page 167 Printed Catalog

### Current

#### Humanities Associate ~~in~~ Arts

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.

<u>Course ID</u>	<u>Title</u>	<u>Units</u>
<b><u>A minimum of 18 units from the following:</u></b>		
<del>International Language Level 3 or 4</del>		<del>5</del>
HIST 4	World History to <del>1750</del>	3
HIST 5	World History from <del>1750</del>	3
HUM 1*	Introduction to Humanities	3
HUM 2*	Origins of Western Culture in Literature	3
HUM 3*	The Culture of Medieval and Renaissance Europe	3
<del>HUM 10A*</del>	<del>Culture, Science, and Society I</del>	<del>3</del>
<del>HUM 10B*</del>	<del>Culture, Science, and Society II</del>	<del>3</del>
HUM 21*	The Search for Meaning – Ideas of Self Across Cultures	3
<del>HUM 22*</del>	<del>Gods, Clocks, and Visions</del>	<del>3</del>
HUM 25*	Planet Earth – Contemporary Issues and Controversies	3
PHIL 1*	Introduction to Philosophy	3
<b>Total Units for the Major:</b>		<b>18</b>

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

### Revised

#### Humanities Associate of Arts

The curriculum in the Humanities Associate of Arts 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 English, history, art history, literature or philosophy, earning the Associate degree would demonstrate achievement and may support attempts to gain entry-level employment. While there are few direct pathways for the recipient of a Humanities degree, or any Liberal Arts degree, student who major in the Humanities and other Liberal Arts find employment because of their development of critical skills in writing, collaboration, and communication. According to the US Bureau of Labor Statistics, Liberal Arts majors find employment in fields including management, teaching, legal fields, sales, media, and more.

#### 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.

<u>Course ID</u>	<u>Title</u>	<u>Units</u>
<b><u>Core Require Courses</u></b>		
HUM 1*	Introduction to Humanities	3
HIST 4	World History to <u>1500</u>	3
HIST 5	World History from <u>1500</u>	3
<b>Restricted Electives:</b>		<b>9</b>
<b>Total Units for the Major:</b>		<b>18</b>
<b><u>Restricted Electives: Select 3 courses</u></b>		
HUM 2*	Origins of Western Culture in Literature	3
HUM 3*	The Culture of Medieval and Renaissance Europe	3
HUM 21*	The Search for Meaning – Ideas of Self Across Cultures	3
HUM 25*	Planet Earth – Contemporary Issues and Controversies	3
<del>HON 11H*</del>	<del>Honors Culture, Science, Society – Renaissance</del>	<del>3</del>
<del>HON 12H*</del>	<del>Honors Culture, Science, Society- The Postmodern World</del>	<del>3</del>
<del>HON 13H*</del>	<del>Honors Culture, Science Society- Power, Resistance, Empire</del>	<del>3</del>
<del>HON 14H*</del>	<del>Honors Culture, Science, Society- Transformation of Empire</del>	<del>3</del>
PHIL 1*	Introduction to Philosophy	3
<b><u>Or</u></b>		
<del>PHIL 1H*</del>	<del>Honors Introduction to Philosophy</del>	<del>3</del>

#### Associate of 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 of 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 has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

## Catalog 2018-19 Revised – Page 173 Printed Catalog

### Current Associate in Arts in Journalism for Transfer Degree

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.

#### 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.

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
<b>Required Courses</b>		
JRN 1	Mass Media and Society	3
JRN 2*	News Writing	3
JRN 111*	News Media Production and Editing	4
Or		
JRN 112*	News Media Production, Blogging and Social Media	4
Or		
JRN 107*	News Media Production and Investigative Reporting	4
<b>Group A: Select one of the following courses (3-4 Units)</b>		
JRN 106*	Video Journalism	3
JRN 109*	News Media Production and Data Reporting	4
<b>Group B: Select two of the following courses (6-10 Units)</b>		
MATH 10*	Introduction to Statistics	3
ECON 4*	Principles (Micro)	3
Or		
ECON 2*	Principles (MACRO)	3
PS 1	American Government	3
PS 12	Comparative Politics and Government	3
ENG 1B*	Principles of Composition	3
SP 3*	Argumentation and Debate	3

**Note: If selecting courses from the list below to fulfill Group B requirements the courses must come from two different CSU Breadth areas within A through D or IGETC areas 1A through 5C**

### Revised Associate in Arts in Journalism for Transfer Degree

Upon completion of the Associate in Arts in Journalism for Transfer degree, 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 earn an associate degree this degree transfer as Journalism majors or into other related majors such as Communications, Broadcast and Electronic Communication Arts, Media Studies, Integrated Media, English, Advertising, Radio & Television, Broadcasting, and Visual Studies.

Jobs earned with journalism writing and media skills range from reporting for newspapers and magazines to online contributors, book editing, broadcast for news stations, producing content for radio, copyediting, grant writing, graphic and page designing, photography, research analysts, social media manager, technical writing, web managing, and public relations, which is the most common career path for most journalism majors.

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.

#### 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

#### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.

## Catalog 2018-19 Revised – Page 173 Printed Catalog

### Current Associate in Arts in Journalism for Transfer Degree

*continued*

SP 1	Communication Fundamentals	3
ENG 1A*	Principles of Composition	4
MATH 2*	Pre-Calculus Mathematics	5
ENV 24	Natural History of California	4
CTVR 3	The History and Appreciation of American Cinema	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3
MUS 27	History of Jazz	3
MUS 28	History of Rock	3
PHOT 25	History of Photography	3
CHI 1*	Elementary Chinese	5
FR 1*	Elementary French	5
SL 1*	American Sign Language I	4
SPAN 1*	Elementary Spanish	5
ANTH 2	Cultural Anthropology	3
ES 1	Multicultural Experiences in the United States	3
<del>ES 2</del>	<del>Multicultural Identities in the United States</del>	<del>3</del>
<del>ES 10</del>	<del>Margins and Border Crossings</del>	<del>3</del>
WS 10	Introduction to Women's Studies	3
<b>Total Units for the Major:</b>		<b>19-24</b>

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

### Revised Associate in Arts in Journalism for Transfer Degree

*continued*

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
<b>Required Courses</b>		
JRN 1	Mass Media and Society	3
Or		
<b>CTVR 1</b>	<b>Mass Media and Society</b>	<b>3</b>
JRN 2*	News Writing	3
JRN 107*	News Media Production and Investigative Reporting	4
Or		
JRN 111*	News Media Production and Editing	4
Or		
JRN 112*	News Media Production, Blogging and Social Media	4
<b>Group A: Select one of the following courses</b>		
JRN 106*	Video Journalism	3
JRN 109*	News Media Production and Data Reporting	4
<b>Group B: Select two of the following courses</b>		
MATH 10*	Introduction to Statistics	3
Or		
<b>PSYC 44*</b>	<b>Statistics for the Behavioral Sciences</b>	<b>3</b>
ECON 4*	Principles (Micro)	3
Or		
<b>ECON 4H*</b>	<b>Honors Principles of Microeconomics</b>	<b>3</b>
Or		
ECON 2*	Principles (MACRO)	3
Or		
<b>ECON 2H*</b>	<b>Honors Principles of Macroeconomics</b>	<b>3</b>
PS 1	American Government	3
Or		
<b>PS 1H</b>	<b>Honors American Government</b>	<b>3</b>
PS 12	Comparative Politics and Government	3
ENG 1B*	Principles of Composition II	3
Or		
<b>ENG 1BH*</b>	<b>Honors Principles of Composition II</b>	<b>3</b>
Or		
<b>ENG 70</b>	<b>Reasoning and College Reading</b>	<b>3</b>
<b>PHIL 12</b>	<b>Introduction to Logic</b>	<b>3</b>
SP 3*	Argumentation and Debate	3
ANTH 2	Cultural Anthropology	3
Or		
<b>ANTH 2H</b>	<b>Honors Cultural Anthropology</b>	<b>3</b>
CTVR 3	The History and Appreciation of American Cinema	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3
CHI 1*	Elementary Chinese	5
ENG 1A*	Principles of Composition I	4
Or		
<b>ENG 1AH*</b>	<b>Honors Principles of Composition I</b>	<b>4</b>
ES 1	Multicultural Experiences in the United States	3
ENV 24	Natural History of California	4
FR 1*	Elementary French	5
MATH 2*	Pre-Calculus Mathematics	5
MUS 27	History of Jazz	3
MUS 28	History of Rock	3

## Catalog 2018-19 Revised – Page 173 Printed Catalog

### Current Associate in Arts in Journalism for Transfer Degree

### Revised Associate in Arts in Journalism for Transfer Degree

*continued*

PHOT 25	History of Photography	3
SL 1*	American Sign Language I	4
SPAN 1*	Elementary Spanish	5
<u>Or</u>		
<b>SPAN 1H*</b>	<b>Honors Elementary Spanish</b>	<b>5</b>
SP 1	Communication Fundamentals	3
<u>Or</u>		
<b>SP 1H</b>	<b>Honors Communication Fundamentals</b>	<b>3</b>
WS 10	Introduction to Women's Studies	3
<u>Or</u>		
<b>WS 10H</b>	<b>Honors intro to Women's Studies</b>	<b>3</b>
<b>Total Units for the Major:</b>		<b>19-24</b>

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



## Catalog 2018-19 Revised – Page 160 Printed Catalog

### Current Landscape Design Associate in Science

~~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.~~

#### Required Courses:

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials- <b>Herbaceous Plants</b>	3
<b>HORT 11</b>	<b>Plant Materials-Trees and Shrubs</b>	<b>3</b>
HORT 106	Landscape CAD- <b>AutoCAD Fundamentals</b>	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	<b>2.5-7</b>
<b>Total Units for the Major</b>		<b>23.5-28</b>

#### Group I:

<del>CWE 180†</del>	<del>Cooperative Work Experience: Horticulture</del>	<del>1</del>
<del>HORT 20</del>	<del>Introduction to Horticulture</del>	<del>4</del>
<del>HORT 113</del>	<del>Soils and Fertilizers</del>	<del>3</del>
<del>HORT 166</del>	<del>Ornamental Native Plants Identification</del>	<del>3</del>

#### Group II:

<del>HORT 115</del>	<del>History of Landscape Design</del>	<del>3</del>
<del>HORT 201*</del>	<del>Professional Practices of Residential Landscape Design</del>	<del>3</del>
<del>HORT 216*</del>	<del>Advanced Irrigation Design</del>	<del>3</del>

~~\*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 Landscape Design Certificate Program.~~

#### 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 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.

**Suggested coursework not required for the major: BUS 1, BUS 120, BUS 137, HORT 113, HORT 115, SPAN 1\*.**

### Revised Sustainable Landscape Design Associate of Science

Students who complete this program will gain fundamental skills in landscape design elements, process and techniques, that are aesthetic, functional, and sustainable, and that contribute to the local ecology. Students will have opportunities to apply their understanding of sustainable horticultural aspects to the development and management of landscape design projects to promote green living environments. Graduates with these skills can gain entry-level employment in jobs such as landscape planning, design, construction, maintenance, and management of environmental systems and landscape design. Students may also elect to take HORT 144 to prepare for the C27 Contractor Licensing Exam.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate fundamental skills in landscape design elements, process and techniques, **that are aesthetic, that are functional, and that contribute to the local ecology with sustainability.**
- Apply their understanding of sustainable horticultural aspects to the development of landscape design to promote green living environments.
- Demonstrate landscape construction and maintenance skills **based on principles of sustainability.**
- Use a variety of computer applications relevant to landscape design, construction, **maintenance**, and **sustainable** horticulture.

#### Required Courses:

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials- <b>Ornamental</b>	3
HORT 106	Landscape CAD- <b>Fundamentals</b>	3
HORT 109	Introduction to Planting Design	3
<b>HORT 115</b>	<b>History of Landscape Design</b>	<b>3</b>
HORT 116	Irrigation Design Fundamentals	3
HORT 130	Hardscape and Construction Materials Fundamentals	3
	Select one course from each Group	<b>2-6</b>
<b>Total Units for the Major</b>		<b>23-27</b>

#### Group 1:

<del>HORT 139</del>	<del>Contemporary Landscape Design Trends</del>	<del>3</del>
<del>HORT 140</del>	<del>Business Aspects in Horticulture and Landscape</del>	<del>3</del>
<del>HORT 142</del>	<del>Introduction to Design Technology</del>	<del>1</del>
<del>HORT 145A</del>	<del>Landscape- Native Garden Design</del>	<del>2</del>
<del>HORT 145B</del>	<del>Landscape Design-Edible Garden</del>	<del>2</del>
<del>HORT 145C</del>	<del>Landscape Design-Therapeutic Garden</del>	<del>2</del>
<del>HORT 238</del>	<del>Introduction to Horticulture Therapy</del>	<del>3</del>

#### Group 2:

<del>HORT 138</del>	<del>The Sustainable Landscape</del>	<del>3</del>
<del>HORT 144</del>	<del>Licensure for the Landscape Contractor</del>	<del>2</del>
<del>HORT 146</del>	<del>Landscape Design Portfolio Development</del>	<del>1</del>
<del>HORT 239</del>	<del>Feng Shui and Well Being</del>	<del>2</del>
<del>CWE 180†</del>	<del>Co-Op-Ed-Hort &amp; Landscape</del>	<del>1</del>

~~†CWE 180 should be taken after completing at least 9 units of the Sustainable Landscape Design program.~~

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 161 Printed Catalog

### Current Landscape Design Certificate of Achievement

~~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.~~

#### Required Courses:

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials- <del>Herbaceous Plants</del>	3
<del>HORT 11</del>	<del>Plant Materials-Trees and Shrubs</del>	<del>3</del>
HORT 106	Landscape CAD- <del>AutoCAD Fundamentals</del>	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:

<del>HORT 20</del>	<del>Introduction to Horticultural Science</del>	<del>4</del>
<del>HORT 113</del>	<del>Soils and Fertilizers</del>	<del>3</del>
<del>HORT 138</del>	<del>The Sustainable Landscape</del>	<del>3</del>
HORT 140	Landscape Management and Construction	3
<del>HORT 141*</del>	<del>Hardscape and Construction Details with CAD</del>	<del>2</del>
<del>HORT 145</del>	<del>Planting Design with Native Plants</del>	<del>3</del>
<del>HORT 166</del>	<del>Ornamental Native Plants Identification</del>	<del>3</del>
<del>CWE 180*†</del>	<del>Cooperative Work Experience: Horticulture and Landscape</del>	<del>1</del>

#### Group H:

HORT 115	History of Landscape Design	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

\*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 **Landscape Design Certificate Program**.

### Revised Sustainable Landscape Design Certificate of Achievement

Students who complete the Sustainable Landscape Design certificate program will gain fundamental skills in landscape design elements, process and techniques, that are aesthetic, functional, and sustainable, and that contribute to the local ecology. Students will have opportunities to apply their understanding of sustainable horticultural aspects to the development and management of landscape design projects to promote green living environments. Graduates with these skills can gain entry-level employment in jobs such as landscape planning, design, construction, maintenance, and management of environmental systems and landscape design. Students may also elect to take HORT 144 to prepare for the C27 Contractor Licensing Exam.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate fundamental skills in landscape design elements, process and techniques, that are aesthetic, that are functional, and that contribute to the local ecology with sustainability.
- Apply their understanding of sustainable horticultural aspects to the development of landscape design to promote green living environments.
- Demonstrate landscape construction and maintenance skills based on principles of sustainability.
- Use a variety of computer applications relevant to landscape design, construction, maintenance, and sustainable horticulture.

#### Required Courses:

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials- <b>Ornamental</b>	3
HORT 106	Landscape CAD- <b>Fundamentals</b>	3
HORT 109	Introduction to Planting Design	3
<b>HORT 115</b>	<b>History of Landscape Design</b>	<b>3</b>
HORT 116	Irrigation Design Fundamentals	3
HORT 130	Hardscape and Construction Materials Fundamentals	3
	Select one course from each Group	2-6

Total Units for the Certificate **23-27**

#### Group 1:

<b>HORT 139</b>	<b>Contemporary Landscape Design Trends</b>	<b>3</b>
HORT 140	<b>Business Aspects in Horticulture and Landscape</b>	3
<b>HORT 142</b>	<b>Introduction to Design Technology</b>	<b>1</b>
<b>HORT 145A</b>	<b>Landscape- Native Garden Design</b>	<b>2</b>
<b>HORT 145B</b>	<b>Landscape Design-Edible Garden</b>	<b>2</b>
<b>HORT 145C</b>	<b>Landscape Design-Therapeutic Garden</b>	<b>2</b>
<b>HORT 238</b>	<b>Introduction to Horticulture Therapy</b>	<b>3</b>

#### Group 2:

<b>HORT 138</b>	<b>The Sustainable Landscape</b>	<b>3</b>
HORT 144	Licensure for the Landscape Contractor	2
<b>HORT 146</b>	<b>Landscape Design Portfolio Development</b>	<b>1</b>
<b>HORT 239</b>	<b>Feng Shui and Well Being</b>	<b>2</b>
<b>CWE 180†</b>	<b>Co-Op-Ed-Hort &amp; Landscape</b>	<b>1</b>

†CWE 180 should be taken after completing at least 9 units of the **Sustainable Landscape Design** program.

## Catalog 2018-19 Revised – Page 149 Printed Catalog

### Current Liberal Studies Associate in Arts

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 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.

#### Complete 18 units as described below:

- ENG 1A\* 4 Units
- SP 1 or 5 3 Units
- PS 1 3 Units

#### Select one of the following:

- ENG 1B\*, 170; PHIL 12\*; SP 2\*, 3\* 3 Units

#### Select one of the following:

- HIST 7, 8, 16, 17, 22 3 Units

#### Select one of the following:

- MATH 2\*, 3A\*, 3B\*, 3C\* 7\*, 8\*, 10\*, 11\*, 24\*, 26\*, 124\* 3-5 Units

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

#### Associate in Arts Degree

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

#### 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.

### Revised Liberal Studies Associate of Arts

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 that 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).

#### 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.

#### Required Core:

Course ID	Title	Units
ENG 1A*	Principles of Composition I	4
<u>Or</u>		
ENG 1AH*	Honors Principles of Composition I	4
SP 1	Communication Fundamentals	3
<u>Or</u>		
SP 1H	Honors Communication Fundamentals	3
<u>Or</u>		
SP 5	Interpersonal Communication	3
PS 1	American Government	3
<u>Or</u>		
PS 1H	Honors American Government	3

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

ENG 1B*	Principles of Composition II	3
<u>Or</u>		
ENG 1BH*	Honors Principles of Composition II	3
<u>Or</u>		
ENG 70*	Reasoning and College Reading	3
<u>Or</u>		
PHIL 12*	Introduction to Logic	3
<u>Or</u>		
SP 2*	Persuasion	3
<u>Or</u>		
SP 3*	Argumentation and Debate	3

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

HIST 16	History of the United States to 1876	3
<u>Or</u>		
HIST 17	History of the United States since 1876	3
<u>Or</u>		
HIST 22	Survey of United States History	3

## Catalog 2018-19 Revised – Page 149 Printed Catalog

### Current Liberal Studies Associate in Arts

### Revised Liberal Studies Associate of Arts

*continued*

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

<b>MATH 2*</b>	<b>Pre-Calculus Mathematics</b>	<b>5</b>
<u>Or</u>		
<b>MATH 3A*</b>	<b>Analytic Geometry and Calculus</b>	<b>5</b>
<u>Or</u>		
<b>MATH 3AH*</b>	<b>Honors Analytic Geometry and Calculus</b>	<b>5</b>
<u>Or</u>		
<b>MATH 3B*</b>	<b>Analytic Geometry and Calculus</b>	<b>5</b>
<u>Or</u>		
<b>MATH 3C*</b>	<b>Analytic Geometry and Calculus</b>	<b>5</b>
<u>Or</u>		
<b>MATH 7*</b>	<b>College Algebra</b>	<b>5</b>
<u>Or</u>		
<b>MATH 8*</b>	<b>College Algebra for Brief Calculus</b>	<b>5</b>
<u>Or</u>		
<b>MATH 10*</b>	<b>Introduction to Statistics</b>	<b>3</b>
<u>Or</u>		
<b>MATH 11*</b>	<b>A Brief Course in Calculus</b>	<b>5</b>
<u>Or</u>		
<b>MATH 14*</b>	<b>Mathematics for Elementary School Teachers</b>	<b>5</b>
<u>Or</u>		
<b>MATH 24*</b>	<b>Elementary Differential Equations</b>	<b>4</b>
<u>Or</u>		
<b>MATH 26*</b>	<b>Introduction to Linear Algebra</b>	<b>4</b>
<u>Or</u>		
<b>MATH 103*</b>	<b>Mathematical Ideas</b>	<b>3</b>
<u>Or</u>		
<b>MATH 124*</b>	<b>Trigonometry</b>	<b>3</b>
<u>Or</u>		
<b>PSYC 44*</b>	<b>Statistics for the Behavioral Sciences</b>	<b>3</b>
<b>Total Units for the Major:</b>		<b>19-21</b>

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

#### **Associate of 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 of 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.



## Catalog 2018-19 Revised – Page 180 Printed Catalog

### Current Marine Science Technician Associate in Science

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.

#### Required Courses

Course ID	Title	Units
ENV 18	Introduction to Ecology	4
or		
BIO 19*	Marine Biology	4
or		
MS 4	Southern California Coastal Ecology	4
MS 20	Introduction to Oceanography	4
	Select from Restricted Electives	<b>15</b>
<b>Total Units for the Major</b>		<b>23</b>

#### 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
<b>MST 219*</b>	<b>Marine Ecological Survey/GIS</b>	<b>3</b>

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

#### Associate in Science Degree

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

#### 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.

### Revised Marine Science Technician Associate of Science

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. **Upon completion of this program, students will be prepared to pass the United States Coast Guard (USCG) examination to receive a USCG Master or Mate license with a scope of 25-100 gross tons.** Flexibility in study areas of concentration allows for tailoring coursework to specific employment opportunities **including marine science technicians, watercraft service attendants, and water transportation workers, such as motorboat operators.**

**Individuals should be aware that there are high regulatory and security requirements for employment and that most water transportation jobs also require the Transportation Worker Identification Credential (TWIC) from the Transportation Security Administration.**

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.

#### Required Courses

Course ID	Title	Units
ENV 18	Introduction to Ecology	4
or		
BIO 19*	Marine Biology	4
or		
MS 4	Southern California Coastal Ecology	4
MS 20	Introduction to Oceanography	4
	Select <b>5 Courses</b> from Restricted Electives	<b>14-15</b>
<b>Total Units for the Major</b>		<b>22-23</b>

#### 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

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 181 Printed Catalog

### Current Marine Science Technician Certificate of Achievement

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.

#### Required Courses

Course ID	Title	Units
ENV 18	Introduction to Ecology	4
or		
BIO 19*	Marine Biology	4
or		
MS 4	Southern California Coastal Ecology	4
MS 20	Introduction to Oceanography	4
	Select from Restricted Electives	<b>15</b>

**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
<del>MST 219*</del>	<del>Marine Ecological Survey/GIS</del>	<del>3</del>

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

### Revised Marine Science Technician Certificate of Achievement

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. **Upon completion of this program, students will be prepared to pass the United States Coast Guard (USCG) examination to receive a USCG Master or Mate license with a scope of 25-100 gross tons.** Flexibility in study areas of concentration allows for tailoring coursework to specific employment opportunities **including marine science technicians, watercraft service attendants, and water transportation workers, such as motorboat operators.**

**Individuals should be aware that there are high regulatory and security requirements for employment and that most water transportation jobs also require the Transportation Worker Identification Credential (TWIC) from the Transportation Security Administration.**

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.

#### Required Courses

Course ID	Title	Units
ENV 18	Introduction to Ecology	4
or		
BIO 19*	Marine Biology	4
or		
MS 4	Southern California Coastal Ecology	4
MS 20	Introduction to Oceanography	4
	Select <u><b>5 Courses</b></u> from Restricted Electives	<b>14-15</b>

**Total Units for the Certificate    22-23**

#### 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

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

## Catalog 2018-19 Revised – Page 184 Printed Catalog

### Current Medical Laboratory Technician Associate in Science

The Medical Laboratory Technician program prepares students for employment as an MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector.

~~The MLT program is a two-year curriculum leading to the 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.~~

### Revision Medical Laboratory Technician Associate of Science

The Medical Laboratory Technician Associate of Science program prepares students for employment as a MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector. 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, immunohematology, and urinalysis. They also will learn to operate and maintain clinical laboratory equipment.

Graduates of the program qualify for State of California/ Department of Public Health, Laboratory Field Services-approved MLT certification examinations sponsored by the American Society of Clinical Pathologists (ASCP) Board of Certification or by the American Association of Bioanalysts (ABB) Board of Registry to become California licensed medical laboratory technicians.

Completion of the following courses with a grade of "C" or better is required prior to submission of an application to the MLT Program: BIO 15 Microbiology, BIO 113 Human Anatomy and Physiology, CHEM 108 Introduction to General, Organic, and Biochemistry, and MATH 205 Math for the Associate Degree or Math 253 Intermediate Algebra.

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.

#### 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, immunohematology, 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.

## Catalog 2018-19 Revised – Page 184 Printed Catalog

### Current Medical Laboratory Technician Associate in Science

*continued*

#### ~~Required pre-requisites prior to Medical Lab Technician Sequence:~~

#### ~~Core Courses:~~

<del>Course ID</del>	<del>Title</del>	<del>Units</del>
<del>BIO 15*</del>	<del>General Microbiology</del>	<del>5</del>
<del>BIO 113</del>	<del>Human Anatomy and Physiology</del>	<del>4</del>
<del>CHEM 108</del>	<del>Introduction to General, Organic, And Biochemistry</del>	<del>4</del>
<del>MATH 253*</del>	<del>Intermediate Algebra</del>	<del>5</del>
<del>MLT 210</del>	<del>Introduction to the Clinical Laboratory Profession</del>	<del>1</del>
<del>MLT 211*</del>	<del>Basic Laboratory Procedures</del>	<del>1</del>
<del>PHLB 240*</del>	<del>Phlebotomy</del>	<del>4</del>
<del>And</del>		
<del>CWE 180*</del>	<del>CO-OP-ED Phlebotomist</del>	<del>2</del>
	<del>Required Courses:</del>	<del>30</del>
	<del>Total Units for the Major:</del>	<del>56</del>

#### ~~Required Courses:~~

<del>MLT 230*</del>	<del>Clinical Chemistry</del>	<del>5</del>
<del>MLT 232*</del>	<del>Clinical Microbiology</del>	<del>3</del>
<del>MLT 235*</del>	<del>Clinical Urinalysis</del>	<del>1</del>
<del>MLT 236*</del>	<del>Clinical Hematology and Coagulation</del>	<del>3</del>
<del>MLT 242*</del>	<del>Clinical Chemistry Practicum</del>	<del>4</del>
<del>MLT 243*</del>	<del>Clinical Immunology – Immunohematology</del>	<del>3</del>
<del>MLT 244*</del>	<del>Clinical Hematology, Coagulation, and Urinalysis Practicum</del>	<del>4</del>
<del>MLT 252*</del>	<del>Clinical Microbiology Practicum</del>	<del>4</del>
<del>MLT 253*</del>	<del>Clinical Immunology – Immunohematology Practicum</del>	<del>3</del>

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

#### ~~Associate in Science Degree~~

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

#### ~~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.

### Revision Medical Laboratory Technician Associate of Science

*continued*

#### ~~Program Admission Prerequisites 16-18 Units:~~

<del>Course ID</del>	<del>Title</del>	<del>Units</del>
<del>BIO 15*</del>	<del>General Microbiology</del>	<del>5</del>
<del>BIO 113</del>	<del>Human Anatomy and Physiology</del>	<del>4</del>
<del>CHEM 108</del>	<del>Introduction to General, Organic, And Biochemistry</del>	<del>4</del>
<del>MATH 253*</del>	<del>Intermediate Algebra</del>	<del>5</del>
<del>Or</del>		
<del>MATH 205*</del>	<del>Math for the Associates Degree</del>	<del>3</del>

#### ~~Required Courses:~~

<del>MLT 210</del>	<del>Introduction to the Clinical Laboratory Profession</del>	<del>1</del>
<del>MLT 211*</del>	<del>Basic Laboratory Procedures</del>	<del>1</del>
<del>PHLB 240*</del>	<del>Phlebotomy</del>	<del>4</del>
<del>And</del>		
<del>CWE 180*</del>	<del>CO-OP-ED Phlebotomist</del>	<del>2</del>
<del>MLT 230*</del>	<del>Clinical Chemistry</del>	<del>5</del>
<del>MLT 232*</del>	<del>Clinical Microbiology</del>	<del>3</del>
<del>MLT 235*</del>	<del>Clinical Urinalysis</del>	<del>1</del>
<del>MLT 236*</del>	<del>Clinical Hematology and Coagulation</del>	<del>3</del>
<del>MLT 243*</del>	<del>Clinical Immunology – Immunohematology</del>	<del>3</del>
<del>MLT 242*</del>	<del>Clinical Chemistry Practicum</del>	<del>4</del>
<del>MLT 244*</del>	<del>Clinical Hematology, Coagulation, and Urinalysis Practicum</del>	<del>4</del>
<del>MLT 252*</del>	<del>Clinical Microbiology Practicum</del>	<del>4</del>
<del>MLT 253*</del>	<del>Clinical Immunology – Immunohematology Practicum</del>	<del>3</del>
	<del>Total Units for the Major:</del>	<del>54-56</del>

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

#### ~~Associate of Science 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 of Science 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.



## Catalog 2018-19 Revised – Page 184 Printed Catalog

### Current Medical Lab Technology Certificate of Achievement

The Medical Laboratory Technician program prepares students for employment as an MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector.

~~The MLT program is a two year curriculum leading to the 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.~~

### Revision Medical Laboratory Technician Certificate of Achievement

The Medical Laboratory Technician program prepares students for employment as an MLT working in a clinical medical laboratory. Medical laboratory technicians (MLTs) perform a wide variety of routine laboratory procedures and work in both public and private laboratories serving the health care sector.

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, immunochemistry, and urinalysis. They also will learn to operate and maintain clinical laboratory equipment.

Graduates of the program qualify for State of California/ Department of Public Health, Laboratory Field Services-approved MLT certification examinations sponsored by the American Society of Clinical Pathologists (ASCP) Board of Certification or by the American Association of Bioanalysts (ABB) Board of Registry to become California licensed medical laboratory technicians.

Completion of the following courses with a grade of "C" or better is required prior to submission of an application to the MLT Program: BIO 15 Microbiology, BIO 113 Human Anatomy and Physiology, CHEM 108 Introduction to General, Organic, and Biochemistry, and MATH 205 Math for the Associate Degree or Math 253 Intermediate Algebra.

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.

#### 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, immunochemistry, 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.

## Catalog 2018-19 Revised – Page 184 Printed Catalog

### Current Medical Lab Technology Certificate of Achievement

*continued*

**Required pre-requisites prior to Medical Lab Technician Sequence:**

**Core Courses:**

Course ID	Title	Units
BIO 15*	General Microbiology	5
BIO 113	Human Anatomy and Physiology	4
CHEM 108	Introduction to General, Organic, And Biochemistry	4
MATH 253*	Intermediate Algebra	5
<del>MLT 210</del>	<del>Introduction to the Clinical Laboratory Profession</del>	<del>1</del>
<del>MLT 211*</del>	<del>Basic Laboratory Procedures</del>	<del>1</del>
<del>PHLB 240*</del>	<del>Phlebotomy</del>	<del>4</del>
<del>And</del>		
<del>CWE 180*</del>	<del>CO-OP-ED Phlebotomist</del>	<del>2</del>
	<b>Required Courses:</b>	<b>30</b>
	<b>Total Units for the Certificate:</b>	<b>56</b>

**Required Courses:**

MLT 230*	Clinical Chemistry	5
MLT 232*	Clinical Microbiology	3
MLT 235*	Clinical Urinalysis	1
MLT 236*	Clinical Hematology and Coagulation	3
MLT 242*	Clinical Chemistry Practicum	4
MLT 243*	Clinical Immunology – Immunohematology	3
MLT 244*	Clinical Hematology, Coagulation, and Urinalysis Practicum	4
MLT 252*	Clinical Microbiology Practicum	4
MLT 253*	Clinical Immunology – Immunohematology Practicum	3

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

### Revision Medical Laboratory Technician Certificate of Achievement

*continued*

**Program Admission Prerequisites 16-18 Units:**

Course ID	Title	Units
BIO 15*	General Microbiology	5
BIO 113	Human Anatomy and Physiology	4
CHEM 108	Introduction to General, Organic, And Biochemistry	4
MATH 253*	Intermediate Algebra	5
<u>Or</u>		
<b>MATH 205*</b>	<b>Math for the Associates Degree</b>	<b>3</b>

**Required Courses:**

<del>MLT 210</del>	<del>Introduction to the Clinical Laboratory Profession</del>	<del>1</del>
<del>MLT 211*</del>	<del>Basic Laboratory Procedures</del>	<del>1</del>
<del>PHLB 240*</del>	<del>Phlebotomy</del>	<del>4</del>
<del>And</del>		
<del>CWE 180*</del>	<del>CO-OP-ED Phlebotomist</del>	<del>2</del>
MLT 230*	Clinical Chemistry	5
MLT 232*	Clinical Microbiology	3
MLT 235*	Clinical Urinalysis	1
MLT 236*	Clinical Hematology and Coagulation	3
MLT 243*	Clinical Immunology – Immunohematology	3
MLT 242*	Clinical Chemistry Practicum	4
MLT 244*	Clinical Hematology, Coagulation, and Urinalysis Practicum	4
MLT 252*	Clinical Microbiology Practicum	4
MLT 253*	Clinical Immunology – Immunohematology Practicum	3
	<b>Total Units for the Certificate:</b>	<b>54-56</b>

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

## Catalog 2018-19 Revised – Page 164 Printed Catalog

### Current Mental Health Worker Associate in Science

~~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.~~

### Required Courses:

Course ID	Title	Units
CWE 180*†	Cooperative Work Experience – Mental Health	2
HS 100*	Introduction to Human Services	3
HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Populations In the United States	3
HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-Occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 220	Benefits and Entitlement	3
HS 285	Ethical Issues and Client's Rights	3
<b>Total Units for the Major:</b>		<b>29</b>

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

† Recommended to be taken in last semester of 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 ~~qualify the student~~ for an Associate in Science degree. A minimum of 12 units must be taken 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.

### Revision Mental Health Worker Associate of Science

The Mental Health Worker Associate of Science degree program provides the knowledge, skills, and cultural competencies needed to engage in best practices in the field of mental health. It prepares individuals to work as paraprofessionals in entry-level positions in the field of mental health. The Mental Health Worker program introduces students to co-occurring disorders and integrated services, benefits and entitlement acquisitions, the recovery model, and the early identification of mental health issues and evidence-based practices. This program option combines the Human Services behavioral core skills training and clinical supervised experiential learning in Cooperative Work Experience mental health fieldwork settings.

A minimum grade of "C" in all courses is required to receive the degree.

Completion of the nine (9) Mental Health Core Courses are prerequisites for the Mental Health Worker Cooperative Work Experience (CWE) [Internship] and is required for the completion of the Mental Health Worker Program. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the Mental Health Worker Roadmap chart. CWE Information Sessions are scheduled in Spring semesters to inform students of the CWE orientation and placement process. Check the Human Services website or Facebook page for the dates and times.

Potential Careers: Mental Health Worker I, Peer Mentor, House Monitor, Group Facilitator, Activities Coordinator, Intake Specialist, Mental Health Care Advocate, Case Worker, Care Giver.

### 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.
- Apply the principles of the Recovery Model to mental health interventions.
- Impart appropriate intervention practices to use with individuals and families impacted by mental health and/or co-occurring disorders.
- Use Mental Health Services behavioral core skills training and experiential learning in mental health settings.

## Catalog 2018-19 Revised – Page 164 Printed Catalog

### Current Mental Health Worker Associate in Science

### Revision Mental Health Worker Associate of Science

*continued*

#### Required Courses:

Course ID	Title	Units
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 176*	Co-Occurring Disorders	3
HS 285	Ethical Issues and Client's Rights	3
HS 131	Multicultural and Diverse Populations In the United States	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 220	Benefits and Entitlement	3
CWE 180*†	Cooperative Work Experience – Mental Health	2
<b>Total Units for the Major:</b>		<b>29</b>

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

† Recommended to be taken in last semester of program.

#### Associate of Science 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 of Science 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.



## Catalog 2018-19 Revised – Page 166 Printed Catalog

### Current Mental Health Worker Certificate of Achievement

~~The Human Services 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.~~

### Required Courses:

Course ID	Title	Units
CWE 180*†	Cooperative Work Experience – Mental Health	2
HS 100*	Introduction to Human Services	3
HS 120	Human Development in the Social Environment	3
HS 131	Multicultural and Diverse Populations In the United States	3
HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176*	Co-Occurring Disorders	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 220	Benefits and Entitlement	3
HS 285	Ethical Issues and Client's Rights	3
<b>Total Core Units for the Certificate:</b>		<b>29</b>

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

† Recommended to be taken in last semester of program.

### Revision Mental Health Worker Certificate of Achievement

The Mental Health Worker Certificate of Achievement program provides the knowledge, skills, and cultural competencies needed to engage in best practices in the field of mental health. It prepares individuals to work as paraprofessionals in entry-level positions in the field of mental health. The Mental Health Worker program introduces students to co-occurring disorders and integrated services, benefits and entitlement acquisitions, the recovery model, and the early identification of mental health issues and evidence-based practices. This program option combines the Human Services behavioral core skills training and clinical supervised experiential learning in Cooperative Work Experience mental health fieldwork settings.

A minimum grade of "C" in all courses is required to receive the certificate.

Completion of the nine (9) Mental Health Core Courses are prerequisites for the Mental Health Worker Cooperative Work Experience (CWE) [Internship] and is required for the completion of the Mental Health Worker Program. Visit the Human Services website at <https://www.saddleback.edu/hs/human-services> for the Mental Health Worker Roadmap chart. CWE Information Sessions are scheduled in Spring semesters to inform students of the CWE orientation and placement process. Check the Human Services website or Facebook page for the dates and times.

### 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.
- Apply the principles of the Recovery Model to mental health interventions.
- Impart appropriate intervention practices to use with individuals and families impacted by mental health and/or co-occurring disorders.
- Use Mental Health Services behavioral core skills training and experiential learning in mental health settings.

## Catalog 2018-19 Revised – Page 166 Printed Catalog

### Current Mental Health Worker Certificate of Achievement

### Revision Mental Health Worker Certificate of Achievement

*continued*

#### Required Courses:

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
HS 100*	Introduction to Human Services	3
HS 120*	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3
HS 176*	Co-Occurring Disorders	3
HS 285	Ethical Issues and Client's Rights	3
HS 131	Multicultural and Diverse Populations In the United States	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 220	Benefits and Entitlement	3
CWE 180*†	Cooperative Work Experience – Mental Health	<u>2</u>
<b>Total Units for the Certificate:</b>		<b>29</b>

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

† Recommended to be taken in last semester of program.

## Catalog 2018-19 Revised – Page 191 Printed Catalog

### Current Nutrition Associate in Science

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.~~

#### Required Courses

Course ID	Title	Units
FCS 115	Consumer Issues	3
or		
FCS 142	Life Management	3
CWE 180†	Co-Op-Ed Foods and Nutrition	<del>2</del>
FN 50†	Fundamentals of Nutrition	3
<del>FN 64</del>	<del>Nutrition Issues and Controversies</del>	<del>3</del>
FN 110*	Food Preparation Essentials	3
<del>FN 120*</del>	<del>Contemporary Meals</del>	<del>3</del>
<del>FN 160</del>	<del>Nutrition, Weight Management, and Eating Disorders</del>	<del>3</del>
<del>FN 164</del>	<del>Sports Nutrition</del>	<del>2</del>
FN 171	Sanitation and Safety	2
or		
FN 210	ServSafe in Food Production	1
<del>FN 230*</del>	<del>Vegetarian Cuisine</del>	<del>2</del>
or		
<del>FN 232</del>	<del>Techniques of Healthy Cooking</del>	<del>2</del>
<b>Total Units for the Major</b>		<b>25-26</b>

\*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 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.

~~Suggested coursework not required for the major: BUS 125, BUS 137, FN 140, FN 171, HLTH 1, KNES 107, PSYC 33, SP 1.~~

### Revised Nutrition Associate of Science

The Nutrition Associate of Science degree 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 also offers coursework for professional improvement.

By completing the Nutrition degree, students will be trained to relate nutrition to health, fitness and disease; to critically assess and apply research in the area of nutritional sciences; to apply current dietary guidelines and nutrition recommendations for good health; to interpret and analyze nutrition labeling; to identify the function, deficiencies, toxicities and sources of nutrients; to identify causes and solutions to obesity and eating disorders; to identify causes and prevention of foodborne illness; to identify food-based solutions to dietary inadequacies; and to compare nutritional needs throughout the life cycle.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify components of a healthy diet and lifestyle that lead to long-term optimal health and disease prevention.
- Accurately assess an individual's nutritional status and make appropriate dietary recommendations.
- Identify and analyze credible research on nutrition-related topics.

#### Required Core

Course ID	Title	Units
FCS 115	Consumer Issues	3
or		
FCS 142	Life Management	3
FN 171❖	Sanitation and Safety	2
or		
FN 210❖	ServSafe in Food Production	1
FN 50†	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
CWE 180†^	Co-Op-Ed Foods and Nutrition	1
<u>Select three courses from Restricted Electives</u>		<b>8-9</b>
<b>Total Units for the Major</b>		<b>19-22</b>

#### Restricted Electives

FN 64	Nutrition Issues and Controversies	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3
FN 164	Sports Nutrition	3
FN 161*	Nutrition for Health Occupations	2
FN 169*	Lifecycle Nutrition	3
FN 120*	Sustainable Meals	3

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

† FN 50 recommended prior to CWE 180.

❖ Students with valid California ServSafe Certification may have this core requirement waived.

^ Students must complete 2 units of CO-OP-ED FOODS AND NUTRITION to earn the degree.

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 192 Printed Catalog

### Current Nutrition Certificate of Achievement

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.~~

#### Required Courses

Course ID	Title	Units
FCS 115	Consumer Issues	3
or		
FCS 142	Life Management	3
CWE 180†	Co-Op-Ed Foods and Nutrition	2
FN 50†	Fundamentals of Nutrition	3
<del>FN 64</del>	<del>Nutrition Issues and Controversies</del>	<del>3</del>
FN 110*	Food Preparation Essentials	3
<del>FN 120*</del>	<del>Contemporary Meals</del>	<del>3</del>
<del>FN 160</del>	<del>Nutrition, Weight Management, and Eating Disorders</del>	<del>3</del>
<del>FN 164</del>	<del>Sports Nutrition</del>	<del>2</del>
FN 171	Sanitation and Safety	2
or		
FN 210	ServSafe in Food Production	1
<del>FN 230*</del>	<del>Vegetarian Cuisine</del>	<del>2</del>
or		
<del>FN 232</del>	<del>Techniques of Healthy Cooking</del>	<del>2</del>

**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.

### Revised Nutrition Certificate of Achievement

The Nutrition **Certificate of Achievement** 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 **also** offers coursework for professional improvement.

**By completing the Nutrition certificate, students will be trained to relate nutrition to health, fitness and disease; to critically assess and apply research in the area of nutritional sciences; to apply current dietary guidelines and nutrition recommendations for good health; to interpret and analyze nutrition labeling; to identify the function, deficiencies, toxicities and sources of nutrients; to identify causes and solutions to obesity and eating disorders; to identify causes and prevention of foodborne illness; to identify food-based solutions to dietary inadequacies; and to compare nutritional needs throughout the life cycle.**

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- **Identify components of a healthy diet and lifestyle that lead to long-term optimal health and disease prevention.**
- **Accurately assess an individual's nutritional status and make appropriate dietary recommendations.**
- **Identify and analyze credible research on nutrition-related topics.**

#### Required Core

Course ID	Title	Units
FCS 115	Consumer Issues	3
or		
FCS 142	Life Management	3
FN 171❖	Sanitation and Safety	2
or		
FN 210❖	ServSafe in Food Production	1
FN 50†	Fundamentals of Nutrition	3
FN 110*	Food Preparation Essentials	3
CWE 180+^	Co-Op-Ed Foods and Nutrition	1

**Select three courses from Restricted**

**Electives** **8-9**

**Total Units for the Certificate 19-22**

#### Restricted Electives

<del>FN 64</del>	<del>Nutrition Issues and Controversies</del>	<del>3</del>
<del>FN 160</del>	<del>Nutrition, Weight Management, and Eating Disorders</del>	<del>3</del>
<del>FN 164</del>	<del>Sports Nutrition</del>	<del>3</del>
<del>FN 161*</del>	<del>Nutrition for Health Occupations</del>	<del>2</del>
<del>FN 169*</del>	<del>Lifecycle Nutrition</del>	<del>3</del>
<del>FN 120*</del>	<del>Sustainable Meals</del>	<del>3</del>

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

† FN 50 recommended prior to CWE 180.

❖ **Students with valid California ServSafe Certification may have this core requirement waived.**

^ **Students must complete 2 units of CO-OP-ED FOODS AND NUTRITION to earn the certificate.**



## Catalog 2018-19 Revised – Page 194 Printed Catalog

### Current

#### Philosophy Associate in Arts

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.

#### Required Courses

Course ID	Title	Units
PHIL 1*	Introduction to Philosophy	3
<del>PHIL 10*</del>	<del>World Religions</del>	<del>3</del>
PHIL 12*	Introduction to Logic	3
Select a Minimum of 9 Units from the Following:		
<del>ENG 15A*</del>	<del>Survey of American Literature 1620-1860</del>	<del>3</del>
<del>ENG 15B*</del>	<del>Survey of American Literature 1860-Contemporary</del>	<del>3</del>
Or		
<del>ENG 17A*</del>	<del>Survey of English Literature Beowulf to Romantic Movement</del>	<del>3</del>
<del>ENG 17B*</del>	<del>Survey of English Lit Romantic Movement To the Present</del>	<del>3</del>
Or		
<del>ENG 21A*</del>	<del>World Literature Ancient to 17<sup>th</sup> Century</del>	<del>3</del>
<del>ENG 21B*</del>	<del>World Literature 17<sup>th</sup> Century to Modern Period</del>	<del>3</del>
<del>HIST 4</del>	<del>World History to 1750</del>	<del>3</del>
<del>HIST 5</del>	<del>World History from 1750</del>	<del>3</del>
HUM 1*	Introduction to Humanities	3
<del>PHIL 15*</del>	<del>Introduction to Ethics</del>	<del>3</del>
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.

~~Suggested coursework not required for the major: Four college semesters, or the equivalent, of a foreign language are strongly recommended. Art history, English literature, history, interdisciplinary studies courses, and psychology or other social sciences are also recommended.~~

### Revised

#### Philosophy Associate of Arts

The Philosophy Department applies critical and analytic methods to theories of knowledge, reality, ethics, religion, and more, from a variety of cultural perspectives, and thereby promotes intellectual growth, an appreciation of social justice, and character. Using traditional philosophical literature, students are exposed to a specific set of philosophical problems and themes that span the history of the discipline.

In all of our Philosophy courses, we maintain a dynamic environment for learning in which we discuss and evaluate philosophical theories and concepts and apply that learning to everyday life through the use of further analysis. The study of such fundamental issues through various perspectives increases cultural awareness and develops critical thinking skills in the students. The Philosophy Program offers courses that examine our common assumptions, values, and traditions, and thereby challenge students to grow intellectually and personally. The content of philosophy focuses on an array of questions regarding humanity, morality, knowledge, and reality. Studying this content expands one's intellectual horizons. Moreover, the practice of careful argumentation that is central to the philosophical method puts students in the position to be effective and motivated lifelong learners.

The curriculum in the Philosophy Associate **of Science** 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 the field of philosophy—majors which include philosophy itself as well as literature, history, economics, gender studies, religion, political science, and law—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.

#### Required Core

Course ID	Title	Units
PHIL 1*	Introduction to Philosophy	3
Or		
PHIL 1H*	Honors Introduction to Philosophy	3
PHIL 5*	History of Modern Philosophy	3
PHIL 12*	Introduction to Logic	3
PHIL 14*	Philosophy of Religion	3
Restricted Electives		6
Total Units for the Major:		18

## Catalog 2018-19 Revised – Page 194 Printed Catalog

### Current Philosophy Associate in Arts

### Revised Philosophy Associate of Arts

*continued*

#### Restricted Electives

PHIL 10*	World Religions	3
PHIL 15*	Introduction to Ethics	3
HUM 1*	Introduction to Humanities	3
HUM 2*	Origins of Western Culture in Literature	3
HUM 3*	The Culture of Medieval and Renaissance Europe	3

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

#### Associate of 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 of 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.

## Catalog 2018-19 Revised – Page 195 Printed Catalog

### Current

#### Physics Associate in Science

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
<b><u>First Year</u></b>		
<del>CS 1A</del>	<del>Introduction to Computer Science</del>	<del>3</del>
MATH 3A*	Analytic Geometry and Calculus	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4A*	General Physics	5
<b><u>Second Year</u></b>		
<del>MATH 3C*</del>	<del>Analytic Geometry and Calculus</del>	<del>5</del>
<del>MATH 24*</del>	<del>Elementary Differential Equations</del>	<del>4</del>
<del>MATH 26*</del>	<del>Introduction to Linear Algebra</del>	<del>4</del>
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
<b>Total Units for the Major:</b>		<b>41</b>

\*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 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

~~Suggested coursework not required for the major: CHEM 4A, CHEM 1B.~~

### Revision

#### Physics Associate of Science

The curriculum in the Physics Associate Degree program is designed to provide the transfer student the opportunity to achieve an Associate of Science degree. While a baccalaureate or higher degree is recommended for those considering majors in engineering, biological sciences, or physics, earning the associate degree may also support attempts to gain entry-level employment or promotion. **The Physics Associate of Science degree allows the student to add course work toward alternative goals as mentioned above. For example, starting with a Physics AS degree, the student could customize their coursework to transfer to a four-year institution in pursuit of an engineering degree.**

#### 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
MATH 3A*	Analytic Geometry and Calculus	5
<b><u>Or</u></b>		
<b><u>MATH 3AH*</u></b>	<b><u>Honors Analytic Geometry and Calculus</u></b>	<b><u>5</u></b>
PHYS 4A*	General Physics	5
MATH 3B*	Analytic Geometry and Calculus	5
PHYS 4B*	General Physics	5
PHYS 4C*	General Physics	5
<b>Total Units for the Major:</b>		<b>25</b>

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

#### Associate of 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 of Science 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.

**Suggested coursework not required for the major: CHEM 1B, MATH 3C, MATH 24, and MATH 26.**

## Catalog 2018-19 Revised – Page 196 Printed Catalog

### Current Associate in Arts in Political Science for Transfer Degree

The curriculum in the Political Science program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Political Science 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 in Political Science 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 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.

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
<b>Required Courses</b>		
PS 1	American Government	3
<b>Group A: Select three courses (9 units)</b>		
<del>PS 10</del>	<del>Introduction to Political Theory</del>	<del>3</del>
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
MATH 10*	Introduction to Statistics	3
<b>Group B: Select two of the following courses (6 units)</b>		
ECON 2*	Principles (Macro)	3
ECON 4*	Principles (Micro)	3
ES 1	Multicultural Experience in the United States	3
<del>ES 2</del>	<del>Multicultural Identities in the United States</del>	<del>3</del>
ES 3	Introduction to Chicana/o and Latina/o Cultures	3
HIST 75	<del>Introduction to the Contemporary</del> Middle East	3
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
<b>Total Units for the Major</b>		<b>18</b>

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

### Revised Associate in Arts in Political Science for Transfer Degree

The curriculum in the Political Science program is designed to provide the transfer student the opportunity to achieve an Associate in Arts in Political Science 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 in Political Science 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 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.

#### Graduation Requirements

**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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
<b>Required Courses</b>		
PS 1	American Government	3
<b>Or</b>		
<del>PS 1H</del>	<del>Honors American Government</del>	<del>3</del>
<b>LIST A: Select three (9 Units)</b>		
<del>PS 10H</del>	<del>Honors Political Theory</del>	<del>3</del>
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
<del>PS 4</del>	<del>Introduction to Political Science</del>	<del>3</del>
MATH 10*	Introduction to Statistics	3
<b>Or</b>		
<del>PSYC 44*</del>	<del>Statistics for the Behavioral Sciences</del>	<del>3</del>



## Catalog 2018-19 Revised – Page 196 Printed Catalog

### Current Associate in Arts in Political Science for Transfer Degree

*continued*

### Revised Associate in Arts in Political Science for Transfer Degree

*continued*

**LIST B: Select two (6 Units) Any LIST A course not already used.**

ECON 2\* Principles (Macro)

**Or**

**ECON 2H\* Honors Principles of Macroeconomics 3**

ECON 4\* Principles (Micro)

**Or**

**ECON 4H\* Honors Principles of Microeconomics 3**

ANTH 2 Cultural Anthropology

**Or**

**ANTH 2H Honors Cultural Anthropology 3**

ES 1 Multicultural Experience in the United States 3

ES 3 Introduction to Chicana(o) and Latina(o) Cultures 3

HIST 75 **History of the Modern** Middle East 3

HIST 80 Introduction to Contemporary Africa 3

**Or**

**PS 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

**Or**

**WS 10H Honors Intro to Women's Studies 3**

**Total Units for the Major 18**

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

## Catalog 2018-19 Revised – Page 196 Printed Catalog

### Current Political Science Associate in Arts

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.

#### Required Courses:

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
<b>Total Units for the Major:</b>		<b>18</b>

#### 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

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.

### Revised Political Science Associate of Arts

The curriculum in the Political Science Associate **of Arts** 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 **such as pre-law, economics, history and journalism**, earning the associate degree may support attempts to gain entry level employment in **government, advocacy jobs, and lobbyist professions**.

#### 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.

#### Required Courses:

Course ID	Title	Units
PS 1	American Government	
<b>Or</b>		
<b>PS 1H</b>	<b>Honors American Government</b>	<b>3</b>
PS 4	Introduction to Political Science	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
	<b>Select from Restricted Electives</b>	<b>6</b>
<b>Total Units for the Major:</b>		<b>18</b>

#### Restricted Electives: Select two courses

ECON 2*	Principles (MACRO)	
<b>Or</b>		
<b>ECON 2H*</b>	<b>Honors Principles of Macroeconomics</b>	<b>3</b>
ECON 4*	Principles (MICRO)	
<b>Or</b>		
<b>ECON 4H*</b>	<b>Honors Principles of Microeconomics</b>	<b>3</b>
ECON 11	International Political Economy	3
<b>Or</b>		
PS 11	International Political Economy	3
HIST 16	History of the United States to 1876	3
HIST 17	History of the United States since 1876	3
MATH 10*	Introduction to Statistics	3
<b>PS 10H</b>	<b>Honors Political Theory</b>	<b>3</b>
PS 80	Introduction to Contemporary Africa	3
SOC 1	Introduction to Sociology	3

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

#### Associate of 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 of 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.

## Catalog 2018-19 Revised – Page 197 Printed Catalog

### Current 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 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:

- Compare and contrast the major theoretical perspectives in psychology.
- Differentiate psychology from pseudoscience.
- Demonstrate knowledge of basic research methods for gathering and evaluating data.
- Apply the principles of psychology to the diverse world in which they live.

### Required Courses

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
------------------	--------------	--------------

#### Required Courses

PSYC 44*	Statistics for the Behavioral Sciences	3
Or		
MATH 10*	Introduction to Statistics	3
PSYC 1	Introduction to Psychology	3
PSYC 2*	Research Methods in Psychology	3

#### Group A: Select one of the following courses (4 Units)

BIO 20	Introduction to Biology	4
PSYC 3*	Biological Psychology	4

#### Group B: Select one of the following courses or any course from Group A not already used (3-4 Units)

PSYC 7*	Developmental Psychology – Childhood Through Adolescence	3
PSYC 30*	Social Psychology	3
SOC 1	Introduction to Sociology	3
<del>ENG 1A*</del>	<del>Principles of Composition I</del>	<del>4</del>
<del>ENG 1B*</del>	<del>Principles of Composition II</del>	<del>3</del>
PHIL 12	Introduction to Logic	3

#### Group C: Select one of the following courses or any course from Group A or B not already used (3-4 Units)

PSYC 5*	Psychological Aspects of Human Sexuality	3
PSYC 16*	Introduction to Cross-Cultural Psychology	3
PSYC 21	The Psychology of Women	3
PSYC 33	Psychology of Adjustment	3
PSYC 37*	Abnormal Behavior	3
PSYC 125*	Psychology of Aging	3

### Revised Associate in Arts Degree in Psychology in 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 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:

- Compare and contrast the major theoretical perspectives in psychology.
- Differentiate psychology from pseudoscience.
- Demonstrate knowledge of basic research methods for gathering and evaluating data.
- Apply the principles of psychology to the diverse world in which they live.

#### Graduation Requirements

**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 Intersegmental General Education Transfer Curriculum (IGETC) or 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 "P" Pass) or better in all courses required for the major or area of emphasis.

### Required Courses

<b>Course ID</b>	<b>Title</b>	<b>Units</b>
------------------	--------------	--------------

#### Required Courses

PSYC 44*	Statistics for the Behavioral Sciences	3
Or		
MATH 10*	Introduction to Statistics	3
PSYC 1	Introduction to Psychology	3
<u>Or</u>		
<b>PSYC 1H</b>	<b>Honors Introduction to Psychology</b>	<b>3</b>
PSYC 2*	Research Methods in Psychology	3
<u>Or</u>		
<b>PSYC 2H*</b>	<b>Honors Research Methods in Psychology</b>	<b>3</b>

## Catalog 2018-19 Revised – Page 197 Printed Catalog

### Current Associate in Arts Degree in Psychology ~~for~~ Transfer

*continued*

ANTH 1	Biological Anthropology	3
ANTH 2	Cultural Anthropology	3
ANTH 3*	Culture and Language	3
ECON 2*	Principles (MACRO)	3
ECON 4*	Principles (MICRO)	3
GEOG 1	Physical Geography	3
GEOG 2	Cultural Geography	3
GEOG 3	World Regional Geography	3
PHIL 1*	Introduction to Philosophy	3
PHIL 15*	Introduction to Ethics	3
Total Units for the Major:		19-21

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

### Revised Associate in Arts Degree in Psychology in Transfer

*continued*

#### **List A: Select one (3-4 Units)**

BIO 20	Introduction to Biology	4
PSYC 3*	Biological Psychology	4

#### **List B: Select one (3 Units)**

PSYC 7*	Developmental Psychology – Childhood Through Adolescence	3
PSYC 30*	Social Psychology	3

**Or**

#### **SOC 30\* Social Psychology 3**

SOC 1	Introduction to Sociology	3
PHIL 12	Introduction to Logic	3

#### **List C: Select one (3 Units) Any LIST A or B course not already used.**

PSYC 5*	Psychological Aspects of Human Sexuality	3
PSYC 16*	Introduction to Cross-Cultural Psychology	3
PSYC 21	The Psychology of Women	3
PSYC 33	Psychology of Adjustment	3
PSYC 37*	Abnormal Behavior	3
PSYC 125*	Psychology of Aging	3

**Total Units for the Major: 19**

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



## Catalog 2018-19 Revised – Page 92 Printed Catalog

### Current Professional Retailing Associate in Science

~~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
<b>CWE 180</b>	<b>Co-Op-Ed Business</b>	<b>1</b>
<del>–Or</del>		
CWE 180	Co-Op-Ed Business	2
<del>–Or</del>		
CWE 180	Co-Op-Ed Business	3
<del>–Or</del>		
CWE 180	Co-Op-Ed Business	4
CIM 112	Microsoft Office	3
	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
<del>–Or</del>		
BUS 14	Legal Environment of Business	3
BUS 104*	Business Communication	3
BUS 120	Business Management	3
<del>–Or</del>		
BUS 135	Marketing	3

### Revision Retailing and Selling Associate of Science

The Associate of Science degree in Retailing and Selling is designed for students interested in careers in retailing and selling. The program will accommodate non-business-major students who are desiring advancement in a current career as well as students seeking initial employment as sales or retailing representatives. Careers include insurance, auto, manufacturing, and other sales representatives or agents, merchandising, and representatives for retail, wholesale, and service industries.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Engage successfully in professional retailing or personal selling.
- Handle human relations issues.
- Handle first line supervision of sales and retailing representatives.
- Work effectively in today's business environments and management structures.
- Apply effective communication skills, including cross-cultural communication and listening skills.

Course ID	Title	Units
BUS 102	Oral Business Communications	3
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
BUS 137	Professional Selling Fundamentals	3
<b>BUS 136</b>	<b>Principles of Retailing</b>	<b>3</b>
	Restricted Electives:	3
	Total Units for the Certificate:	18

#### Restricted Electives:

ACCT 214	Business Analysis and Calculations	3
<del>Or</del>		
CWE 180	Cooperative Work Experience – Business	3

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 92 Printed Catalog

### Current Professional Retailing Associate in Science

*continued*

#### Area II—Promotion

BUS 135	Marketing	3
BUS 138	Advertising	3
-Or-		
CTVR 138	Advertising	3
-Or-		
BUS 105	Social Media Marketing	3
FASH 150	Fashion Apparel and Professional Techniques	3
GS101	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.

#### 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 14, BUS 102, BUS 103, BUS 104, BUS 116, BUS 135, BUS 137, BUS 138, BUS 147, BUS 150, BUS 260, CIM 1, CIM 10, CIM 120, CIM 121A, CIMN 100, CIMN 100A, CIMN 100B; FASH 140, FASH 144, FASH 150.~~

### Revision Retailing and Selling Associate of Science

## Catalog 2018-19 Revised – Page 99 Printed Catalog

### Current Professional Retailing Certificate of Achievement

~~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	4
–Or–		
CWE 180	Co-Op-Ed Business	2
–Or–		
CWE 180	Co-Op-Ed Business	3
–Or–		
CWE 180	Co-Op-Ed Business	4
CIM 112	Microsoft Office	3
	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

### Revision Retailing and Selling Certificate of Achievement

The Certificate of Achievement in Retailing and Selling is designed for students interested in careers in retail or sales professions. The program will accommodate non-business-major students who are desiring advancement in a current career as well as students seeking initial employment in merchandising and retail or as sales professionals. Careers include merchandising, insurance, auto, and other sales representatives or agents and representatives for retail, wholesale, and service industries. The certificate can be completed in a single term. The Certificate of Achievement in Retailing and Selling may be completed in one semester.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Engage successfully in professional retailing or personal selling.
- Handle human relations issues.
- Work effectively in today's business environments and management structures.
- Apply effective communication skills, including cross-cultural communication and listening skills.

Course ID	Title	Units
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
BUS 137	Professional Selling Fundamentals	3
BUS 136	Principles of Retailing	3
	Restricted Electives:	3
	Total Units for the Certificate:	15

#### Restricted Electives:

ACCT 214	Business Analysis and Calculations	3
–Or–		
CWE 180	Cooperative Work Experience – Business	3
–Or–		
BUS 102	Oral Business Communications	3

## Catalog 2018-19 Revised – Page 99 Printed Catalog

### Current Professional Retailing Certificate of Achievement

*continued*

#### Area II – Promotion

BUS 135 — Marketing — 3

BUS 138 — Advertising — 3

–Or

CTVR 138 — Advertising — 3

–Or

BUS 105 — Social Media Marketing — 3

FASH 150 — Fashion Apparel and Professional  
Techniques — 3

GS101 — 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.

### Revision Retailing and Selling Certificate of Achievement

*continued*



## Catalog 2018-19 Revised – Page 180 Printed Catalog

### Current Seamanship Associate in Science

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.

#### Required Courses:

Course ID	Title	Units
MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 210	Coastal Navigation	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
	Select from Restricted Electives	9
<b>Total Units for the Major</b>		<b>23</b>

#### Restricted Electives

MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 218*	Electronic Aids to Navigation	3
<b>MST 219*</b>	<b>Marine Ecological Survey/GIS</b>	<b>3</b>
MST 224	Channel Islands	1.5

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

#### Associate in Science Degree

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

#### 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: ET 101; DR 100, PHYS 2A.**

### Revised Seamanship Associate of Science

This program is designed to prepare individuals ~~to become sailors, small motor-boat operators, and to pass the United States Coast Guard (USCG) examination to receive a USCG Master or Mate license with a scope of 25-100 gross tons.~~ 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.

The Seamanship program will provide individuals with the requisite knowledge and skills to perform work on a vessel in an entry level position in the maritime industry, such as an ordinary seaman. An ordinary seaman employed in the maritime industry works as a deckhand on commercial vessels and is responsible for keeping the vessel and its equipment in working order.

After completing the Seamanship program and meeting minimum sea time requirements, individuals will be eligible to take a US Coast Guard exam for advancement to Able Seaman. Those meeting the USCG requirements and having enough deck service time may also qualify for a Merchant Mariner's Credential.

Individuals should be aware that there are high regulatory and security requirements for employment and that most water transportation jobs also require the Transportation Worker Identification Credential (TWIC) from the Transportation Security Administration.

#### 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.

#### Required Courses:

Course ID	Title	Units
MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 210	Coastal Navigation	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
	Select <b>three courses</b> from Restricted Electives	<b>7.5-9</b>

**Total Units for the Major      21.5-23**

#### Restricted Electives

MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 218*	Electronic Aids to Navigation	3
MST 224	<b>Introduction to Cruising the</b> Channel Islands	1.5

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

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 181 Printed Catalog

### Current Seamanship Certificate of Achievement

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.

#### Required Courses:

Course ID	Title	Units
MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 210	Coastal Navigation	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
	Select from Restricted Electives	9
<b>Total Units for the Certificate</b>		<b>23</b>

#### Restricted Electives

MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 218*	Electronic Aids to Navigation	3
<del>MST 219*</del>	<del>Marine Ecological Survey/GIS</del>	<del>3</del>
MST 224	Channel Islands	1.5

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

### Revised Seamanship Certificate of Achievement

This program is designed to prepare individuals to become sailors, small motor-boat operators, and to pass the United States Coast Guard (USCG) examination to receive a USCG Master or Mate license with a scope of 25-100 gross tons. 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.

The Seamanship program will provide individuals with the requisite knowledge and skills to perform work on a vessel in an entry level position in the maritime industry, such as an ordinary seaman. An ordinary seaman employed in the maritime industry works as a deckhand on commercial vessels and is responsible for keeping the vessel and its equipment in working order.

After completing the Seamanship program and meeting minimum sea time requirements, individuals will be eligible to take a US Coast Guard exam for advancement to Able Seaman. Those meeting the USCG requirements and having enough deck service time may also qualify for a Merchant Mariner's Credential.

Individuals should be aware that there are high regulatory and security requirements for employment and that most water transportation jobs also require the Transportation Worker Identification Credential (TWIC) from the Transportation Security Administration.

#### 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.

#### Required Courses:

Course ID	Title	Units
MST 201	Marlinspike Seamanship	2
MST 202	Marine Weather	3
MST 210	Coastal Navigation	3
MST 214B*	Advanced Cruising Under Sail	3
MST 215*	Vessel Command and Organization	3
	Select <u>three courses</u> from Restricted Electives	<u>7.5-9</u>
<b>Total Units for the Certificate</b>		<b><u>21.5-23</u></b>

#### Restricted Electives

MST 211	Celestial Navigation	3
MST 212	Sailing, Seamanship, and Boating Safety	3
MST 214A*	Intermediate Ocean Sailing	3
MST 216	USCG Master License and Examination Preparation Course	3
MST 218*	Electronic Aids to Navigation	3
MST 224	<u>Introduction to Cruising the</u> Channel Islands	1.5

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

## Catalog 2018-19 Revised – Page 80 Printed Catalog

### Current Studio Arts

#### Associate in Arts for Transfer

The Associate in Arts in Studio Arts for Transfer degree is designed for students who plan 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 advance 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 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:

- ~~• Be prepared for transfer in art history and/or studio art by offering articulated courses, and courses that serve as prerequisites for admission in the UC system, the CSU system and private institutions.~~
- ~~• Be prepared for employment 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.~~

#### Required Core:

ARTH 26*	Survey of Western Art History – Renaissance to Contemporary	3
ART 40	2-D Foundations	3
ART 41*	Three-Dimensional Design	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 <del>and</del> Oceanic Art	3
ARTH 25	Survey of Art History – Ancient Worlds to Gothic	3
ARTH 29	Introduction to World Art	3

#### Group B: Select three courses from three areas below (9 units)

##### Drawing

ART 85*	Drawing from the Live Model I	3
or		
ART 81*	Drawing II	3

##### Painting

ART 50*	Painting – I	3
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##### Printmaking

ART 60*	Intaglio (Etching) and Relief I	3
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##### Ceramics

<del>ART 9*</del>	<del>Ceramics Fundamentals</del>	<del>3</del>
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##### Sculpture

ART 70	Fundamentals of Sculpture	3
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##### Color

ART 42*	Color Theory and Practice	3
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**Total Units for the Major      24**

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

### Revised Studio Arts

#### Associate in Arts for Transfer

The Associate in Arts in Studio Arts for Transfer degree is designed for students who plan 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 advance 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 for Transfer prepares students for transfer to a four-year university and guarantees 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.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Develop a portfolio for transfer into studio arts programs in the UC system, the CSU system and private institutions.
- Demonstrate employment readiness in the field of art through experience in the studio arts, exhibition design and art history **which develop life skills & critical thinking through the creative process of researching and interpreting valid information, formulating socially engaging content, utilizing divergent thinking and engaging in reflective and active analytical or evaluative thinking.**
- Develop both soft and practical skills that translate into a higher level of qualification for employment in the areas of art education, museum studies, art exhibition & sales, public art, creative entrepreneurship, illustration, animation, graphic design, architecture, fashion, interior design.
- Synthesize the collaborative nature of Science, Technology, Engineering, Art & Mathematics by experiencing the tools and methods of design through creative problem solving and innovative design practices.

#### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements (CSU GE-Breadth).
  - 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 "P" Pass) or better in all courses required for the major or area of emphasis.

#### Required Core:

ARTH 26*	Survey of Western Art History – Renaissance to Contemporary	3
ART 40	2-D Foundations	3
ART 41*	Three-Dimensional Design	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, Oceanic <del>and</del> <b>Ancient North American Art</b>	3
ARTH 25	Survey of Art History – Ancient Worlds to Gothic	3

## Catalog 2018-19 Revised – Page 80 Printed Catalog

### Current Studio Arts Associate in Arts for Transfer

*continued*

### Revised Studio Arts Associate in Arts for Transfer

*continued*

ARTH 29	Introduction to World Art	3
<b>Group B: Select three courses from three areas below (9 units)</b>		
<b>Drawing</b>		
ART 85*	Drawing from the Live Model I	3
or		
ART 81*	Drawing II	3
<b>Painting</b>		
ART 50*	Painting – I	3
<b>ART 51*</b>	<b>Painting - II</b>	<b>3</b>
<b>ART 52*</b>	<b>Painting – III</b>	<b>3</b>
<b>Printmaking</b>		
ART 60*	Intaglio (Etching) and Relief I	3
<b>ART 61*</b>	<b>Intaglio (Etching) and Relief II</b>	<b>3</b>
<b>ART 62*</b>	<b>Intaglio (Etching) and Relief III</b>	<b>3</b>
<b>Ceramics</b>		
<b>ART 10*</b>	<b>Ceramics – Handbuilding I</b>	<b>3</b>
<b>ART 11*</b>	<b>Ceramics – Wheel I</b>	<b>3</b>
<b>Sculpture</b>		
ART 70	Fundamentals of Sculpture	3
<b>ART 71*</b>	<b>Additive Sculpture</b>	<b>3</b>
<b>ART 72*</b>	<b>Subtractive Sculpture</b>	<b>3</b>
<b>ART 175*</b>	<b>Metal Casting</b>	<b>3</b>
<b>Photography</b>		
<b>PHOT 50</b>	<b>Digital Photography I</b>	<b>3</b>
<b>Color</b>		
ART 42*	Color Theory and Practice	3
<b>Total Units for the Major</b>		<b>24</b>

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



## Catalog 2018-19 Revised – Page 202 Printed Catalog

### Current Theatre Arts

#### Associate in 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.

#### Required Core Courses: (9-10 units)

Course ID	Title	Units
TA 20	Theatre Appreciation	3
TA 1	Fundamentals of Acting	3

#### Select 3-4 units in Rehearsal and Performance Production; courses may be repeated:

TA 15*	Rehearsal and Performance: Drama	2
TA 16*	Rehearsal and Performance: Comedy	2
TA 17*	Rehearsal and Performance: Mixed Genres	2
TA 18*	Rehearsal and Performance: Dance	1
TA 113*	Rehearsal and Performance: Children's Theatre	2

OR

#### Select a maximum of 3 units in Technical Theatre in Production

ETT 142*	Theatre Production	1
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#### List A: Select three courses (9 units)

TA 2*	Scene Study I	3
ETT 41*	Stage Lighting	3
ETT 42	Costume Design	3
ETT 40	Stagecraft	4
TA 15*	Rehearsal and Performance: Drama	2
TA 16*	Rehearsal and Performance: Comedy	2
TA 17*	Rehearsal and Performance: Mixed Genres	2
TA 18*	Rehearsal and Performance: Dance	1
TA 113*	Rehearsal and Performance: Children's Theatre	2
ETT 142*	Theatre Production	1

**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.~~

### Revised Theatre Arts

#### Associate in Arts for Transfer

The Associate in Arts in Theatre Arts for Transfer degree will provide students with a broad introduction to making theatre. This degree is designed for students with an interest in pursuing theatre as a profession who have not yet decided where to specialize. As such, students 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.

#### 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.

#### Graduation Requirements

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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements (CSU GE-Breadth).
  - 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 "P" Pass) or better in all courses required for the major or area of emphasis.

#### Required Core Courses: (9 units)

Course ID	Title	Units
TA 20	Theatre Appreciation	3
OR		
TA 25	Theatre History – Primitive to Renaissance	3
TA 1	Fundamentals of Acting	3

#### Complete 3 units in Technical Theatre in Production

ETT 142*	Theatre Production	1
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#### List A: Select three courses (9 units)

TA 2*	Scene Study I	3
ETT 101*	Fundamentals of Design and Graphics for Theatre	3
ETT 41*	Lighting Design Fundamentals	3
ETT 42	Costume Design	3
TA 43	Stage Make-Up	3
ETT 40	Stagecraft	3

**Total Units for the Major      18**

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

## Catalog 2018-19 Revised – Page 201 Printed Catalog

### Current Theatre Arts Performance and Acting Associate in Arts

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

#### Required Courses:

Course ID	Title	Units
ETT 40	Stagecraft	4
TA 1	Fundamentals of Acting	3
TA 2*	Scene Study I	3
TA 11	Stage Movement	3
<b>TA 43</b>	<b>Stage Make-Up</b>	<b>1</b>
	<b>Select from Appreciation and History</b>	<b>3</b>
	<b>Select from Rehearsal and Performance</b>	<b>.5-2</b>
	<b>Select from Acting</b>	<b>6</b>
	<b>Select from Restricted Electives</b>	<b>3</b>
<b>Total Units for the Major</b>		<b>26.5-28</b>

#### Appreciation and History:

TA 25	Theatre History – Primitive to Renaissance	3
<b>TA 26</b>	<b>Theatre History – Renaissance to Contemporary</b>	<b>3</b>

#### Rehearsal and Performance:

ETT 142	Theatre Production	.5 or 1
TA 15	Rehearsal and Performance: Drama	1
TA 16	Rehearsal and Performance: Comedy	1
TA 17	Rehearsal and Performance: Mixed Genres	1
<b>TA 18</b>	<b>Rehearsal and Performance: Dance</b>	<b>1</b>
TA 19	Rehearsal and Performance: Musical Theatre	1

#### Acting:

<b>TA 3*</b>	<b>Scene Study II</b>	<b>3</b>
<b>TA 4*</b>	<b>Acting Styles I</b>	<b>3</b>
<b>TA 5*</b>	<b>Acting Styles II</b>	<b>3</b>
<b>TA 10</b>	<b>Musical Theatre Techniques</b>	<b>3</b>
<b>TA 290*</b>	<b>Acting for Television and Film</b>	<b>3</b>

#### Restricted Electives:

ETT 41	Lighting Design Fundamentals	3
ETT 42	Costume Design	3
<b>ETT 45</b>	<b>Scene Design</b>	<b>3</b>
ETT 101*	Fundamentals of Design and Graphics for Theatre	3
<b>TA 102</b>	<b>Stage Management</b>	<b>3</b>

\*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.

**Suggested coursework not required for the major: TA 12, TA 20, TA 22, TA 30, TA 32, TA 108, TA 110, TA 113, 130.**

### Revised Theatre Arts Performance and Acting Associate of Arts

The **Theatre Arts Performance and Acting Associate of Arts Degree program** is designed to provide the student the opportunity to **obtain professional training and** achieve an Associate Degree in Theatre Arts. **With this degree, a student can transfer to an institution of higher learning which offers a BA or BFA in Drama Studies, Theatre Arts, Theatre Education and other related Liberal Arts degrees. Students should consult the transfer institutions for concentration specific requirements.** A Baccalaureate Degree in Theatre Arts or higher is recommended for those considering a professional career in Performance and Acting. An **Associate of Arts degree** would demonstrate commitment to the major for those transferring to other institutes of higher learning and may support attempts to gain employment in **performance, acting, or voice over work.**

#### 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

#### Required Courses:

Course ID	Title	Units
ETT 40	Stagecraft	3
TA 1	Fundamentals of Acting	3
TA 2*	Scene Study I	3
<b>TA 3*</b>	<b>Scene Study II</b>	<b>3</b>
TA 11	Stage Movement	3
<b>TA 35</b>	<b>Voice and Diction</b>	<b>3</b>
<b>Select two units from Group 1: Rehearsal, Performance, and Production</b>		<b>2</b>
<b>Select one course from Group 2: Appreciation and History</b>		<b>3</b>
<b>Select one course from Group 3: Theatre Electives</b>		<b>3</b>

**Total Units for the Major 26**

#### Group 1: Rehearsal, Performance, and Production (select 2 units)

ETT 142*	Theatre Production	1 (2)
TA 15*	Rehearsal and Performance – Drama	2
TA 16*	Rehearsal and Performance – Comedy	2
TA 17*	Rehearsal and Performance – Mixed Genres	2
TA 19*	Rehearsal and Performance – Musical Theatre	2
<b>TA 113*</b>	<b>Rehearsal and Performance – Children's Theatre</b>	<b>2</b>

#### Group 2: Appreciation and History (select one course)

<b>TA 20</b>	<b>Theatre Appreciation</b>	<b>3</b>
TA 25	Theatre History – Primitive to Renaissance	3
<b>TA 22</b>	<b>Musical Theatre History and Appreciation</b>	<b>3</b>

#### Group 3: Theatre Electives (select one course)

ETT 41*	Lighting Design Fundamentals	3
ETT 42	Costume Design	3
ETT 101*	Fundamentals of Design and Graphics for Theatre	3
<b>TA 4*</b>	<b>Acting Styles I</b>	<b>3</b>
<b>TA 10</b>	<b>Musical Theatre Techniques</b>	<b>3</b>
<b>TA 12*</b>	<b>Directing</b>	<b>3</b>

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

✦ If ETT 142 is selected, the student will need to take it twice to reach 2 units.

#### Associate of 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 of 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.

## Catalog 2018-19 Revised – Page 202 Printed Catalog

### Current Theatre Arts Technical Theatre Associate in Arts

~~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.~~

#### Required Courses:

Course ID	Title	Units
ETT 40	Stagecraft	4
ETT 100*	Applied Technical Theatre Production	3
ETT 142	Theatre Production	1
<b>ETT 240*</b>	<b>Advanced Stagecraft</b>	<b>3</b>
TA 1	Fundamentals of Acting	3
	Select from <b>Appreciation &amp; History</b>	3
	Select from <b>Restricted Electives</b>	3-6

**Total Units for the Major 18-23**

#### Appreciation and History:

TA 20	Theatre Appreciation	3
TA 25	Theatre History – Primitive to Renaissance	3
<b>TA 26</b>	<b>Theatre History – Renaissance to Contemporary</b>	<b>3</b>

#### Restricted Electives:

ETT 41	<b>Stage Lighting</b>	3
ETT 42	Costume Design	3
<b>ETT 45</b>	<b>Scene Design</b>	<b>3</b>
<b>ETT 101*</b>	<b>Fundamentals of Design and Graphics for Theatre</b>	<b>3</b>
<b>ETT 104</b>	<b>Costume Crafts</b>	<b>3</b>
<b>ETT 130</b>	<b>Theatre Management</b>	<b>3</b>
ETT 144	Theatre Scenery Painting	2
<b>TA 102</b>	<b>Stage Management</b>	<b>3</b>

\*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 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.

### Revised Theatre Arts Technical Theatre Associate of Arts

The Theatre Arts Technical Theatre Associate of Arts degree program is designed to provide the student the opportunity to obtain professional training and achieve an Associate Degree in Technical Theatre. With this degree, a student can transfer to an institution of higher learning which offers a BA in Drama Studies, Theatre Arts, Theatre Education, Technical Theatre and other related Liberal Arts degrees. A Baccalaureate Degree in Theatre Arts or higher is recommended for those considering a professional career in the entertainment industry or theatre. An Associate Degree would demonstrate commitment to the major for those transferring to other institutes of higher learning and may support attempts to gain entry-level employment as a Theatre Technician, Theatrical Stage Employee, Moving Picture Technician, Entertainment Artist, or in Allied Crafts.

#### 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.

#### Required Core:

Course ID	Title	Units
ETT 40	Stagecraft	3
ETT 100*	Applied Technical Theatre Production	2
ETT 142*	Theatre Production	1 (3)
<b>ETT 101*</b>	<b>Fundamentals of Design and Graphics for Theatre</b>	<b>3</b>
TA 1	Fundamentals of Acting	3
	Select <b>one course</b> from <b>Group 1</b>	3
	Select <b>one course</b> from <b>Group 2</b>	2-3

**Total Units for the Major 19-20**

#### Group 1:

TA 20	Theatre Appreciation	3
<b>TA 22</b>	<b>Musical Theatre History and Appreciation</b>	<b>3</b>
TA 25	Theatre History – Primitive to Renaissance	3

#### Group 2:

ETT 41*	<b>Lighting Design Fundamentals</b>	3
ETT 42	Costume Design	3
ETT 144	Theatre Scenery Painting	2

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

✦ Course needs to be taken three times.

#### Associate of 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 of 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.

## Catalog 2018-19 Revised – Page 204 Printed Catalog

### Current Travel and Tourism Associate in Science

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.

#### Required Courses

Course ID	Title	Units
CWE 180	<del>Cooperative Work Experience: Travel Agency</del>	1
TOUR 250	Introduction to Travel & Tourism	3
TOUR 252	World Destinations and Resorts--Western Hemisphere	3
TOUR 253	World Destinations-Europe	3
TOUR 254	World Destinations-Pacific, Asia, Africa, Middle East	3
TOUR 255	Selling Dreams – The Travel Industry	3
TOUR 257	Tours and Cruises	3
TOUR 259*†	Airline Computer Training	2
TOUR 260*	Advanced Airline Computer Training	2
<b>Total Units for the Major</b>		<b>23</b>

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

~~†Recommended to be taken in last semester of 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 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.

~~Suggested coursework not required for the major: BUS 1, BUS 102, BUS 125, BUS 135, BUS 137, BUS 138, CIM 121A, CIM 121B.~~

### Revised Travel and Tourism Associate of Science

The Travel and Tourism Associate of Science degree 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 including airline computing and cruise itineraries. The program covers all aspects of travel including air, cruise ships, rail, and car. Students completing this degree will be prepared for occupations as: Travel Counselors, Meeting Planners, In-house Travel Consultants, Reservation Sales Agents, and Ticket Agents.

#### 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 predetermined 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.

#### Required Courses

Course ID	Title	Units
TOUR 250	Introduction to <u>the Exciting World of</u> Travel & Tourism	3
TOUR 252	World Destinations and Resorts--Western Hemisphere	3
TOUR 253	World Destinations-Europe	3
TOUR 254	World Destinations-Pacific, Asia, Africa, Middle East	3
TOUR 255	Selling Dreams – The Travel Industry	3
TOUR 257	Tours and Cruises	3
TOUR 259*	Airline Computer Training	2
TOUR 260*	Advanced Airline Computer Training	2
CWE 180*	<u>Co-Op-Ed Travel Management</u>	1
<b>Total Units for the Major</b>		<b>23</b>

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

#### Associate of Science 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 of Science 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.



## Catalog 2018-19 Revised – Page 204 Printed Catalog

### Current Travel and Tourism Certificate of Achievement

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.

#### Required Courses

Course ID	Title	Units
CWE 180	<del>Cooperative Work Experience: Travel Agency</del>	1
TOUR 250	Introduction to Travel & Tourism	3
TOUR 252	World Destinations and Resorts--Western Hemisphere	3
TOUR 253	World Destinations-Europe	3
TOUR 254	World Destinations-Pacific, Asia, Africa, Middle East	3
TOUR 255	Selling Dreams – The Travel Industry	3
TOUR 257	Tours and Cruises	3
TOUR 259*†	Airline Computer Training	2
TOUR 260*	Advanced Airline Computer Training	2
<b>Total Units for the Certificate</b>		<b>23</b>

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

~~†Recommended to be taken in last semester of program.~~

### Revised Travel and Tourism Certificate of Achievement

The Travel and Tourism **Certificate of Achievement** 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 **including airline computing and cruise itineraries.** The program covers all aspects of travel including air, cruise ships, rail, and car. **Students completing this certificate will be prepared for occupations as: Travel Counselors, Meeting Planners, In-house Travel Consultants, Reservation Sales Agents, and Ticket Agents.**

#### 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 predetermined 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.

#### Required Courses

Course ID	Title	Units
TOUR 250	Introduction to <u><b>the Exciting World of</b></u> Travel & Tourism	3
TOUR 252	World Destinations and Resorts--Western Hemisphere	3
TOUR 253	World Destinations-Europe	3
TOUR 254	World Destinations-Pacific, Asia, Africa, Middle East	3
TOUR 255	Selling Dreams – The Travel Industry	3
TOUR 257	Tours and Cruises	3
TOUR 259*	Airline Computer Training	2
TOUR 260*	Advanced Airline Computer Training	2
CWE 180*	<u><b>Co-Op-Ed Travel Management</b></u>	1
<b>Total Units for the Certificate</b>		<b>23</b>

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

## Catalog 2018-19 Revised – Page 142 Printed Catalog

### Current Visual Fashion Merchandising Associate in Science

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 operations 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.

#### Required Courses

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		
BUS 143	Fashion Buying and Merchandising	3
FASH 144	Fashion Trends	3
FASH 145*§	Internship	1
or		
BUS 145*§	Internship	1
and		
CWE 180*†	Co-Op-Ed Fashion	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
Select one course from each Group		5
<b>Total Units for the Major</b>		<b>34</b>

#### Group 1

ART 42*	Color Theory and Practice	3
ART 100	Art Gallery/Display and Exhibition	3
FASH 140	Fashion Image	3

#### Group 2

FASH 260*«	The Digital Fashion Image	2
or		
FASH 204«	Understanding Apparel Principles -AIMS Certification	1
and		
FASH 225«	Apparel Cart – Fashion Retailing Online with Easy Cart Shop	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 certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

#### 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 40, ART 41\*, ART 50\*, ART 80, ART 142/GD 142; BUS 138/CTVR 138; ETT 40; FASH 100, FASH 254; GC 101; GD 141/ART 141; ID 110, ID 127\*.

### Revised Fashion Display and Presentation Associate of Science

The Fashion Display and Presentation degree provides the student with a comprehensive academic foundation to pursue multiple fashion display careers within the field of merchandising and marketing. Students will have opportunities to develop skills in product knowledge, color theory, fashion sketching, store planning and layout, stage set design and construction, careers within the industry, and history of fashion trends. Students that complete this program will be prepared for entry level positions in brick and mortar retail and/or e-commerce. Occupations such as: visual merchandiser, visual stylist, display assistant, display coordinator, retail management, customer service associate, and freelance display artist. This Associate of Science degree prepares students for transfer to 4-year universities, majoring in Fashion Merchandising or Fashion Design. Similar transfer majors include: Apparel Management, Apparel Merchandising and Fashion Retailing.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their visual display and presentation skills.
- Demonstrate and understand skills needed to create and construct 3-dimensional window displays and/or 3-dimensional visual stage sets showcasing continuity of theme, layout, signage, merchandise, and lighting presentation.
- Demonstrate and understand skills needed to execute editorial or lifestyle photo shoots for publications in print or e-commerce.

#### Required Core

Course ID	Title	Units
FASH 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3
<b>FASH 140</b>	<b>Fashion Image</b>	<b>3</b>
FASH 144	<u>Fashion Trends and Cultural Costumes</u>	3
FASH 147	Special Events Coordination and Promotion	3
FASH 148	Visual Merchandising	3
FASH 154	Fashion Illustration	3
Select from <u>Restricted Electives</u>		<b>2-3</b>
<b>Total Units for the Major</b>		<b>23-24</b>

#### Restricted Electives

ARTH 100	Art <u>Gallery Display</u> and Exhibition	3
CWE 180*†	Co-Op-Ed Fashion	1
and		
FASH 145*§	Internship	1
FASH 260*	The Digital Fashion Image	2
FASH 250	<u>Fashion Trend Forecasting</u>	3
ID 114	<u>Applied Color and Design Theory for Interior Design</u>	3
ID 115*	CAD for Interior Design	3

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

† Recommended to be taken in the last semester of the program.

§ Must be taken concurrently with CWE 180.

#### Associate of Science 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 of Science 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.

## Catalog 2018-19 Revised – Page 144 Printed Catalog

### Current Visual Fashion Merchandising Certificate of Achievement

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 operations 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.~~

#### Required Courses

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		
BUS 143	Fashion Buying and Merchandising	3
FASH 144	Fashion Trends	3
FASH 145*§	Internship	1
or		
BUS 145*§	Internship	1
and		
CWE 180*†	Co-Op-Ed Fashion	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
Select one course from each Group		5
Total Units for the Certificate		34

#### Group 1

ART 42*	Color Theory and Practice	3
ART 100	Art Gallery/Display and Exhibition	3
FASH 140	Fashion Image	3

#### Group 2

FASH 260*«	The Digital Fashion Image	2
or		
FASH 204«	Understanding Apparel Principles —AIMS Certification	1
and		
FASH 225«	Apparel Cart – Fashion Retailing Online with Easy Cart Shop	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.

### Revised Visual Display and Presentation Certificate of Achievement

The Visual Display and Presentation Certificate will provide the student with a comprehensive academic foundation to pursue multiple visual display careers within the field of merchandising and marketing. Students will have opportunities to develop skills in Adobe Illustrator, fashion retailing on-line, store planning and layout, retail and event marketing, 3-dimensional window display and storytelling, knowledge of materials and tools, and computer aided design. Students who complete this certificate will be prepared for entry-level positions in brick and mortar retail and/or e-commerce, trade show design, home fashions, styling, party design and set and stage design for fashion shows and events. This certificate is designed for the student looking to obtain the necessary skills for immediate entry into the workforce. Occupations such as: retail merchandising field specialist, visual merchandiser, visual designer, merchandising coordinator, visual associate, and freelance visual merchandiser. An internship within visual display is also required and often leads to employment opportunities upon completion. This certificate provides the foundation for advanced certificates in Fashion Merchandising and/or Fashion Design.

#### Program Student Learning Outcomes

Students who complete this program will be able to:

- Produce a professional portfolio showcasing their visual display and presentation skills.
- Complete an industry internship including the completion of three individual goals and objectives as determined by themselves and an industry supervisor.
- Demonstrate and understand skills needed to create and construct 3-dimensional window displays and/or 3-dimensional visual stage sets showcasing continuity of theme, layout, signage, merchandise, and lighting presentation.

#### Required Courses

Course ID	Title	Units
FASH 140	Fashion Image	3
or		
FASH 143	Fashion Buying and Merchandising	3
FASH 147	Special Events Coordination and Promotion	3
FASH 148	Visual Merchandising	3
FASH 150	Fashion Apparel and Professional Techniques	3
or		
FASH 154	Fashion Illustration	3
CWE 180*†	Co-Op-Ed Fashion	1
and		
FASH 145*§	Internship	1
FASH 225	Apparel Cart – Fashion Retailing Online with Easy Cart Shop	1
or		
FASH 250	Fashion Trend Forecasting	1.5
FASH 260*	The Digital Fashion Image	2
ID 114	Applied Color and Design Theory for Interior Design	3
Select one course from <u>Restricted Electives</u>		3
Total Units for the Certificate		23-23.5

#### Restricted Electives

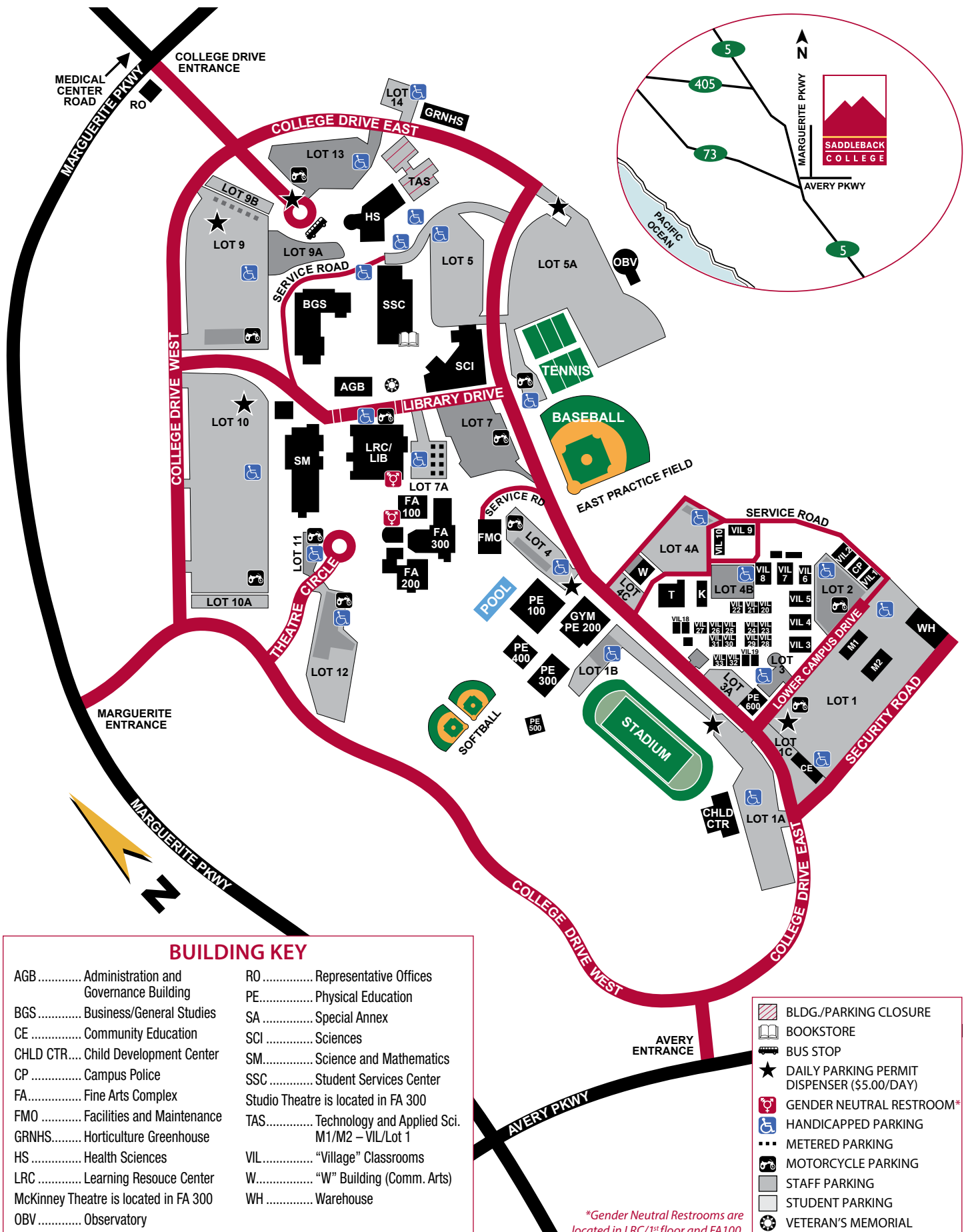
ARTH 100	Art Gallery Display and Exhibition	3
ID 115*	CAD for Interior Design	3
PHOT 50	Digital Photography I	3

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

† Recommended to be taken in the last semester of the program.

§ Must be taken concurrently with CWE 180.

# SADDLEBACK COLLEGE CAMPUS MAP







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