College
CATALOG

2021-2022

Welcome to
OPPORTUNITY.

SADDLEBACK
COLLEGE
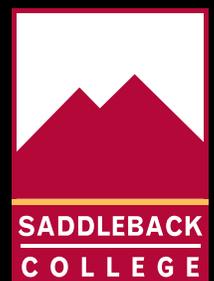
2021-2022 Academic Calendar

Fall Semester 2021	
Instruction Begins	August 23
Labor Day Observance - classes not in session	September 6
Mid-Semester Instruction begins	October 21
Last day to petition for Fall Graduation	November 1
Veterans Day Observance - classes not in session	November 11
Thanksgiving Observance - classes not in session	November 25-28
Final Exams	December 15-21
Winter Break	December 22 - January 18

Spring Semester 2022	
First day applications accepted for New and Former Students	August 1
Instruction Begins	January 18
Martin Luther King Day Observance - classes not in session	January 17
Presidents' Day Observance - classes not in session	February 18-21
Last day to petition for Spring graduation	March 1
Spring Recess - classes not in session	March 20 - 27
Cesar Chavez Day Observance	March 31
Mid-Semester Instruction begins	April 1
Final Exams	May 19 - 25
Commencement - Saddleback College	May 26

Summer Session 2022	
Memorial Day Observance - classes not in session	May 30
Instruction Begins	May 31 - August 14
Last day to petition for Summer graduation	July 1
Independence Day Observance - classes not in session	July 4

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

NOTICE

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

Saddleback College Catalog

2021-2022

Volume LIII

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.

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 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.

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South Orange County Community College District

28000 Marguerite Parkway, Mission Viejo, California 92692 • 949-582-4999 • 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. The District promotes access, success and equity to meet each student's goal of skills development, certificate, associate degree, transfer or personal enrichment. The SOCCCD contributes to the economic vitality of the region.

2020-2025 District-wide Goals

Goal 1: SOCCCD will ensure student equity in access and achievement.

Goal 2: SOCCCD will transform lives through learning and achievements.

Goal 3: SOCCCD will engage with the community through athletic and cultural events, enrichment programs, and in creating economic prosperity for all.

Goal 4: SOCCCD will optimize our institutional design and structure with a student-centered focus.

Board of Trustees

Marcia Milchiker, President
Timothy Jemal, Vice President
Terri Whitt Rydell, Clerk
Carolyn Inmon, Member
Barbara J. Jay, Member
T.J. Prendergast III, Member
James R. Wright, Member
Ethan Manafi, Student Member

(BP 2010/BP 2015/BP 2200)

Saddleback Administration

Office of the President **President**	(949) 582-4722 **Dr. Elliot Stern**
Office of Instruction **Vice President**	(949) 582-4795 **Tram Vo-Kumamoto**
Office of Student Services **Vice President**	(949) 582-4566 **Dr. Juan Avalos**
Office of College Administrative Services **Vice President**	(949) 582-4664 **Cory Wathen**
Admissions, Records and Enrollment Services **Dean**	(949) 582-4555 **Christian Alvarado**
Student Development **Director**	(949) 582-4616 **Christopher Hargraves**
Financial Aid **Director**	(949) 582-4860 **(Vacant)**

Divisions, Departments, and Services

Advanced Technology and Applied Science
(949) 582-4541

Dean	**Anthony Teng**
Advanced Manufacturing Architectural Drafting Automotive Technology Computer Maintenance Technology Cosmetology Drafting Technology Ecological Restoration Electronic Technology	Environmental Studies Family and Consumer Sciences Fashion Foods and Nutrition Graphics Horticulture Interior Design Travel and Tourism

Economic & Workforce Development and Business Science
(949) 582-4773

Dean **Assistant Dean of Career and Technical Education** **Director, Economic & Workforce Development**	**John Jaramillo** **Kari Irwin** **Israel Dominguez**
Accounting Business Computer and Information Management Real Estate	Career Placement Contract Education Cooperative Work Experience Real Estate Education Center

Extended Learning
(949) 582-4326 - Community Education
(949) 582-4835 - Emeritus Institute

Associate Vice President for Extended Learning **Assistant Dean of Division/Director of Emeritus Institute**	**Dr. Karima Feldhus** **Daniel Predoehl**
Adult Education Community Education	Emeritus Institute

Counseling Services
(949) 582-4572

Dean	Dr. Penelope Skaff
Articulation Counseling Career Services General Counseling	Matriculation Re-Entry Center Transfer Center

Fine Arts and Media Technology
(949) 582-4747

Dean	Dr. Scott Farthing
Art Art History Cinema/TV/Radio Communication Studies (formerly Speech)	Dance Music Theatre Arts/Entertainment & Theatre Technology

Health Sciences and Human Services
(949) 582-4701

Dean Assistant Dean/Director of Nursing	Dr. Sherrie Loewen Dr. Dee Oliveri
American Sign Language Emergency Medical Technology Health Sciences Health Information Technology Human Services Insurance Billing	Medical Assistant Medical Lab Technician Mental Health Nursing Paramedic Phlebotomy

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

Dean Assistant Dean of Kinesiology and Athletics/Athletic Director	Dan Clauss (Vacant)
Adapted Kinesiology Health	Intercollegiate Athletics Kinesiology

Liberal Arts
(949) 582-4788

Dean	Dr. Kevin O'Connor
English English as a Second Language Humanities International Languages	Journalism Philosophy Reading

Mathematics, Science and Engineering
(949) 582-4820

Dean	Art Nitta
Astronomy Biological Sciences Chemistry Computer Science Engineering	Geology Marine Science Mathematics Physics

Online Education and Learning Resources
(949) 582-4397

Dean	Dr. Marina Aminy
Faculty Center Honors Library	LRC - Tutoring Online Education

Social and Behavioral Sciences
(949) 582-4733

Dean	Christina Hinkle
Anthropology Child Development and Education Economics Education Gender and Sexuality Studies Geography	Geographic Information Systems History Political Science Psychology Social Science

Student Equity and Special Programs
(949) 582-4619

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

President's Message

Saddleback College

Welcome to Opportunity

On behalf of our faculty, staff, and administrators, welcome to Saddleback College. If you are joining us this year, you will find what our current students know to be true: At Saddleback, ensuring that our students feel welcome, that they know they are a part of a diverse community that embraces the importance of each student's journey, is our priority. Every employee of this college is dedicated to making you feel welcome and helping you be successful.

This year, as we transition to a "new and better normal" after many months of online learning and social distancing, we are doubling down on our mission to help our students reach their destination – whether they are starting, continuing, or getting back to their higher education journey. Even before the pandemic, Saddleback ranked first of all community colleges in the state in our online class offerings, and our online student success rates are higher than at most community colleges. In our adapting to the pandemic, we've only gotten better at providing the highest quality academic curriculum in an online setting, and we are looking forward to combining that with a mix of in-person and hybrid classes so that our students can choose a schedule that works best for them.

Perhaps more than ever, now is the time to take advantage of the support services that are offered to you at Saddleback. Apply for financial aid. See a counselor to map your academic plan. Utilize the in-person and online services in our Student Health Center. All of our services are here to help you get the resources you need to stay on your path, and starting this fall, they will be offered both in-person and online so that students can access services in the way that is most convenient for them.

Thank you for choosing Saddleback. We are so happy to be a part of your educational journey and are here to help you succeed.

Sincerely,

Dr. Elliot Stern

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 empowers its diverse student body to achieve personal, academic, and economic advancement through equitable and innovative educational experiences. (*BP 1200*)

Values

Saddleback College embraces:

Commitment

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

Innovation

We anticipate and welcome change by encouraging innovation and creativity.

Excellence

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

Academic Freedom

We endorse academic freedom and the open exchange of ideas. (*BP 4030*)

Collegiality

We foster a climate of integrity, honesty, and respect.

Sustainability

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

Success

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

Inclusiveness

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

Partnership

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

Global Awareness

We recognize the importance of global awareness and prepare our students to live and work in an increasingly interconnected world.

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 lIamar 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

- INSCRIPCION REGULAR: Tener 18 años de edad o ser graduado/a de la escuela secundaria.
- INSCRIPCIÓN CONCURRENTE: Estudiantes desde el 9 al 12 año de la escuela secundaria, podrán matricularse en clases recomendadas por el/la director/a de su escuela, pero que no excedan 11 unidades. Si desea más información, consulte con la Oficina de Admisión y Registros.
- NO-RESIDENTES: Son personas que han permanecido menos de un año 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 lIame al 949-582-4555 para obtener más información acerca de esta exención.

FECHAS DE INSCRIPClÓN: 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 Ie 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

EI 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 INSCRIPClÓN: Se cobrará lo siguiente:

- No-Residentes: $295.00 (por unidad) y en adición $46.00 por unidad. Al no-residente que es ciudadano/a/residente extranjero/a adicionalmente se le cobrará $25.00 por uso de facilidades (por unidad) y $54.00 (sin devolución), para procesar su solicitud al tiempo de solicitar. Estos cobros son para estudiantes internacionales.
- Residentes: Al residente de California se Ie 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: Los estudiantes que tienen la intención de estacionar en un lote de estudiantes deben comprar un permiso de estacionamiento cada semestre. Un permiso anual que incluye otoño, primavera y verano está disponible para su compra sólo en el otoño. Los costos de la tarifa de estacionamiento se pueden encontrar en el sitio web de la universidad en la página web de la Oficina de Pago estudiantil bajo "Tarifas".

COBRO DE SERVICIOS DE SALUD: Debe pagar $22 por semestre (en otoño y primavera) para cubrir servicios de salud personal. EI costo en el semestre de verano es de $18 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.

Nivelación de inglés y matemáticas

La Oficina de Matriculación (Matriculation Office) ofrece servicios que incluyen: nivelación de matemáticas, inglés, e inglés como segunda lengua (ESL); análisis de los resultados del proceso de nivelación; consejo académico y orientación; y análisis de reporte de calificaciones de otras instituciones.

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.

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, y tiene información en inglés y en español. La oficina está en el Edificio de Servicios para Estudiantes, salón SSC 106. EI número de teléfono es 949-582-4860.

Programa de EOPS

EOPS ayuda a estudiantes que tienen desventajas educacionales y desventajas financieras. El programa EOPS se compromete a ofrecer los siguientes servicios de apoyo: prioridad de inscripción, consejería personal, académica, y transferencia a la universidad, ayuda con el costo de los libros, tutoría, becas y mucho más. Nuestro objetivo es ofrecer a nuestros estudiantes de EOPS los servicios y el apoyo que se necesitan para tener éxito en sus metas académicas y/o vocacionales. Estudiantes interesados pueden visitar o llamar la oficina de EOPS, tenemos personal que puede contestar sus preguntas. La oficina está localizada en el edificio de servicio para estudiantes, oficina 126 o llamar al (949) 582-4620.

Servicios de Tutoría (LRC)

EI 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) (*BP 5010/AR 5010*)

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 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 two semesters or more (not including summer) must submit an application for admission online. Computers and assistance with the application are available in the Office of Admissions and Records. The online application is available at www.saddleback.edu/admissions.

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

Fall semester:	February 1
Spring semester:	August 1
Summer session:	February 1

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 Unites 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, 31 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 and in the International Student Office. Prospective students may contact the International Student Office at 949-582-4637 or by e-mail at sc-iso@saddleback.edu.

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

1. Application for admission is available online beginning the following dates:
   Fall semester: February 1
   Spring semester: August 1
   Summer session: February 1
2. A nonrefundable processing fee of $54 for the 2019-2020 academic year, required with the application form.

3. The International Student Supplement should be completed, signed by the applicant, and turned in to the International Student Office. The form can be found at www.saddleback.edu/iso.
4. English proficiency test requirement: Students whose native language is not English must take the TOEFL (Test of English as Foreign Language), STEP EIKEN, 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.
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.
6. 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.
7. International Student Supplement completed and signed by the applicant. The form can be found at www.saddleback.edu/iso/admission-requirements-international-students.

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

1. Transfer form completed by prior institution verifying the student's current status.
2. Copy of the SEVIS I-20 provided by prior institution.
3. Copy of passport information page (i.e. name, photo, date of birth, etc.), F1 visa, and form I-94 (both sides).
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 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.

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

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

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

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. *(BP 5030/AR 5030)*

Health Fee

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 $22 for the fall and spring semesters and $18 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.

In addition to emeritus classes being exempt, State law provides the following exemptions from the health fee:

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.

Student Representation Fee

The $2 Student Representation Fee is an optional fee collected at the time of registration for each enrolled student and established by CA Education Code: 76060.5.

- $1 will go to the Associated Student Government (ASG) to fund advocacy efforts for student leaders and student representatives to state their positons and viewpoints on behalf of Saddleback College students before city, county, district, state, and federal government, as well as other public agencies.
- $1 will be expended to establish and support the operations of a statewide community college student organization, recognized by the Board of Governors of the California Community Colleges, with effective student representation and participation in state-level community college shared governance and with governmental affairs representatives to advocate before the Legislature and other state and local governmental entities. Currently, the Student Senate for California Community Colleges (SSCCC) serves in this capacity. SSCCC hosts a general assembly annually and is made up of ten regions with student representatives from all 115 community colleges in the State of California.

Transcript/Verification Fees

Transcripts: Students are entitled to two free transcripts and/or verifications. Additional copies are $6.00 per copy. Transcripts may be ordered online or in-person only. (The online system does not accommodate the two free transcripts.) *(BP 5030/AR 5030)*

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 for more information.

Verifications of Enrollment a standard official verification of enrollment may be downloaded free of charge through MySite. Choose My Information then choose Official Enrollment Verification.

Other types of verifications are $6.00 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.

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 $25 per unit. This is in addition to the $46 per unit enrollment fee and the $295 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 $295 per unit. This is in addition to the $46 per unit enrollment fee and the $25 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.

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

A student must officially drop classes through online or in-person registration within the established refund deadline dates to be eligible for a refund of fees paid. There are no refunds for classes added or dropped after these refund deadline dates. Also, students dropped from a class by an instructor after the class refund deadline date are not entitled to a refund. The only exception to this policy is when the college cancels the class. *(BP 5030/AR 5030)*

Refunds are processed automatically. Dropping classes within the refund deadline dates will generate a credit on the student's account.

If the payment was made using a credit card, a refund will automatically be issued to the card used for payment. In the event a credit card refund cannot be completed, a refund check will be mailed to the student using the mailing address listed in MySite.

If the payment was made using a check, money order, or cash, a refund check will be mailed to the student using the mailing address listed in MySite. The only exception is when the funds were provided by an organization with which the college has an existing refund return policy, 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. Please allow 30 days for processing credit card refunds and 45 days for processing check refunds. Additional information on refunds is available on the Student Payment Office web page at www.saddleback.edu/spo. 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 classes are dropped prior to the applicable deadline date for each class, or if the student's class(es) have been cancelled by the college.

Material/Lab Fee Credits

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

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. Individual comprehensive educational plans
5. Career, learning, and transfer centers
6. Continued monitoring of academic success

Who is required to complete Matriculation Process

First time college students and college students new to the district (SOCCCD) who are seeking a certificate, two-year degree or transfer.

Who is Exempt from Matriculation

Students who have completed an associate degree (or higher), are concurrently enrolled at a 4-year college/university, has completed 30+units of college credit at time of admissions, K-12 special dual enrolled admits, or students enrolling in courses for non-academic purposes.

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** (via Current Assessment Process) is used as an initial indicator of the course levels a student should begin with for a selected major or Learning Pathway. Initial Math and English placement is no longer derived from assessment exams but from multiple measures including high school transcript data, and self-reported data. The Current Assessment Process may include, but is not limited to, the student's high school grade point average, high school English coursework, high school math coursework, English language proficiency, and possible recommendation for corequisite support course enrollment.
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. 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 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.

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.

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 attending a counseling appointment or a MAP workshop. An appointment can be scheduled by contacting the Counseling Office at (949)582-4572 or visiting SSC 167 the Counseling Office. Appointments and workshops are offered both in person and online.

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 date 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.

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 must submit a prerequisite evaluation request with evidence of prior prerequisite course completion to the Matriculation Office. Students can clear a course prerequisite requirement with any of the following methods or evidence:

1. Complete the course(s) at Saddleback College with a satisfactory grade.
2. Provide transcript(s) from another accredited college or university showing the completion of an equivalent prerequisite course to the Matriculation Office. Such evidence must demonstrate satisfactory completion of the prerequisite course.
3. Provide a high school transcript showing the completion of the equivalent prerequisite coursework to the Matriculation Office. Math and English course prerequisite clearance requires a district/school issued copy of the transcript containing at least 3 years of data and a cumulative, unweighted GPA.
4. Provide a College Board Advanced Placement (AP) score report with a passing score of 3 or higher to the Matriculation Office. English course prerequisites can be cleared with the English Composition/Language or Composition/Literature exam scores. Math course prerequisites can be cleared with the Calculus AB or BC exam scores.

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 notification of prerequisite clearance approval or denial is available on the Matriculation website.

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 prerequisite 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.

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 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 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 and have not lost registration priority, as defined by ADMINISTRATIVE REGULATION 5055, qualify for Level 1 registration.

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 (1) New Student Orientation; (2) Math and English placement; and (3) Student Advisement including a First Semester Educational Plan 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 CCPG).
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 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.

Career & Re-Entry Center

The Career and Re-Entry Center includes Career Guidance Services and Re-Entry Services. The center provides assistance and support to students and potential students. The career computer lab and library resources are available to students when groups or classes are not scheduled for visits. It is located in the Student Services Center, Room 140. Additional services and resources are available on our website at www.saddleback.edu/career.

Career Guidance Services are available to anyone who needs assistance with making a career decision, choosing a major, or researching career information. Educational and occupational information are available in the library to explore at the student's own pace. Additional resources include information about Career Education, scholarship resources, re-entry information, and online and traditional education options that may lead to career or transfer. Computerized assessments that measure skills, personality, and values are available for free or at a nominal fee. In addition, career assessment packages can be purchased through a career guidance or career counseling appointment. Please make an appointment by calling (949) 582-4575.

Re-Entry Services are available to students aged 25+ who are searching for ways to return to school, change careers, or find new direction and support in their lives. The Re-Entry Specialist assesses barriers that prevent a student from being successful in college and provides guidance as well as referrals to on-campus resources. Workshops, support groups, and specialized Re-Entry scholarships are also available for re-entry students. For information on low cost and sliding scale community resources and programs, please visit www.saddleback.edu/reentry. Individual appointments can be scheduled in advance at (949) 582-4575.

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.

Counseling Services

Saddleback College provides complete counseling and career development services. These services include individual and/or group counseling for academic, career, transfer, and personal counseling. Counselors provide support for 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 meet with a counselor at least once a semester.

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. Counseling is available both in person and online.

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.

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. Arrangement for support services must be made in advance.

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/dsps.

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 serves students who are at an educational and financial disadvantage. The EOPS program is committed to providing over and above student support services such as priority registration, personalized counseling, book vouchers, extended tutoring, scholarships and much more. It is our goal to provide our EOPS students with the tools and support that is needed to succeed in their academic and/or vocational goals. Further, we strive to promote an education of self-awareness, personal growth and the power of choice and perseverance through counseling. 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.

Cooperative Agencies Resources for Education (CARE)

As a supplemental program of EOPS, CARE provides over and above and in addition to, educational support and assistance for EOPS eligible students who are single heads-of-households parents and currently receive CalWORKs (California Work Opportunity and Responsibility to Kids) cash aid for themselves and/or their children. 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.

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.

Tele-Health Service

Schedule a virtual Tele-Health appointment with a Health Center doctor, nurse, or therapist by visiting https://www.saddleback.edu/shc or you can call Saddleback College Health Center at (949) 582-4606.

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).

Food Pantry

Services include providing food for our currently enrolled students through our Food Pantry. Requests can be placed once a week by completing the Food Pantry Request Form and emailing it to scstudenthealth@saddleback.edu. A request can also be made by calling (949) 348-6260. See the Health Center webpage for service details.

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.

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.

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.

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, 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 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.

Financial Aid Office

The Financial Aid 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. *(BP 5130/AR 5130)*

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 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 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 the Cal 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 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.

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 request a student loan at www.saddleback.edu/fao/loans. 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 request.

Both entrance and exit counseling are requirements of the 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

California College Promise Grant (formerly BOG fee waiver) 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 CCPG.

To receive this assistance, students are encouraged to submit the FASFA or the California Dream Act, and be a California resident or an eligible AB 540 student.

Required Academic Progress for California College Promise Grant (formerly BOG fee waiver) Any combination of two primary consecutive terms (fall and spring) of cumulative GPA below 2.0, and/or cumulative course completion less than 50% may result in loss of fee waiver eligibility. 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.

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 March 2nd and September 2nd 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 $1094 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.

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.

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

Scholarships

Saddleback College offers scholarships through the college's Foundation Office and generous donors. Students may be awarded scholarships on the basis of academic achievement, financial need, or campus and community service. Scholarship information is available at www.saddleback.edu/fao/scholarship-information.

Scholarships are also available from sources beyond Saddleback College. Additional information can be found at 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 Financial Aid 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 CCPG 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 67% (or more) of all units attempted. Also, a student cannot exceed 150% of the maximum time frame as stated in the student educational objective.

Outreach and Community Relations

(949) 582-4218
The Office of Outreach and Community Relations develops, coordinates and provides outreach services to prospective students, parents, and community members. The primary goal of the office is to attract new students, inform the community about educational opportunities, including career education and transfer programs, and to assist in the application process at Saddleback College. Services include campus tours; high school visits; presentations to students, parents, and community groups on admissions procedures, academic programs and student services; attending college fairs; and participating in community events and programs.

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.

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.

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 or email us at 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 eligible for priority enrollment.
2. Students using VA education benefits (such as Chapter 31 or 33) where the Department of Veterans Affairs makes payment to the college for applicable enrollment fees will receive a payment deferral on their student account. There will be no fines, holds, or other penalties assessed on the student's account while the college is awaiting payment from the VA. These students are not required to pay any upfront costs related to enrollments; however, the student will be responsible for any fees not covered by the VA.
3. 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.
4. 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 once 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 SSC211. For more information, phone 949-582-4252, visit our website at www.saddleback.edu/vets, or email us at vetsoutreach@saddleback.edu.

Student Activities/College Life

Alumni: Stay in Touch with Saddleback

The Saddleback College Foundation wants you to keep in touch! We love hearing your successes and want to keep connected to you. The Foundation will keep you up-to-date on Saddleback College news and events. We will help you support your college and pay it forward to future generations at Saddleback College. Contact the Saddleback College Foundation at (949) 582-4479 or www.saddleback.edu/foundation.

Arts and Media

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

Associated Student Government (ASG)

The Associated Student Government (ASG) is the representative body of the students at Saddleback College. ASG plans, organizes, promotes, sponsors, and finances a comprehensive program of activities and services for all Saddleback College students and advocates on behalf of students. ASG also serves as the body that recognizes and works with student clubs. Participating in ASG and Campus Clubs provides students with 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. For additional information, visit https://www.saddlebackasg.com/ or email official@saddlebackasg.com.

Associated Student Body (ASB) Stamp and FUND-Card

The Associated Student Government provides an excellent program of activities and services. Part of the funding for these programs come 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. Stamp holders receive perks such as discounts at the cafeteria, coffee cart, bookstore on select items, and from surrounding businesses. The stamp also provides a free OC bus pass for students and funds general scholarships accessible to the campus community. To receive your stamp or for additional information, please contact Student Development, at (949)-582-4616 or scstudentdevelopment@saddleback.edu. You can also visit our website at www.saddleback.edu/studentdevelopment.

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

Student clubs are a great way to develop personal and professional skills while meeting and connecting with fellow students who share the same passion. Students can participate in dozens of student clubs and organizations ranging in interests from academic to recreational to social. Build resumes, make new friends, develop skills, be active, and get involved.

To learn more about starting or joining a club, visit https://www.saddleback.edu/studentdevelopment or email scstudentdevelopment@saddleback.edu.

Diversity, Inclusion, and Cultural Activities

Saddleback College provides a variety of events and activities for students to participate in to promote cultural awareness, diversity, equity, and inclusion. The Associated Student Government provides funding for programs and also has a standing committee, the International and Diversity Student Council (IDSC), which works with various groups on campus to promote awareness through social and educational programs. From events such as Film Festivals, Persian New Year's, Around the World, and the Gender

Conference, students can find a variety of activities to participate. Visit https://www.saddleback.edu/studentdevelopment or email idsc@saddlebackasg.com.

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 (AGS), 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 (PTK), 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. Phi Theta Kappa is a lifetime membership so long as the member's GPA does not fall below 3.25; dues are paid only once. In 2020, the Saddleback Chapter of PTK achieved being a 5 star chapter.

Founded in 1982, Psi Beta is a national honor society for students attending two-year colleges, inviting students who plan to major or minor in psychology, as well as students who simply have an interest in psychology. Members is open to students who maintain a minimum GPA of 3.25 and have completed a college-level psychology course with a grade of B or higher.

For further information about these honor societies, contact the Saddleback Honors Program at (949) 582-4853 or visit www.saddleback.edu/honors/honor-societies.

Students should note the difference between these honor societies and the Saddleback Honors Program. The Honors Program provides advanced coursework and transfer opportunities to qualified students. For information about the Honors Program, see the Honors Program page in this catalog.

Media and Publications

Several publications are available to the College and community. The "Lariat", a standard-size newspaper published by journalism students, is distributed weekly during the regular academic year. Journalism program students also publish a magazine, "Orange Appeal" once a year in the spring semester. In addition, the Liberal Arts division publishes "Wall", a literary journal featuring the creative writing and artwork of Saddleback English students. Once yearly, the ESL (English as a Second Language) department produces "International Voice," a compendium of student-written essays.

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

Student Development and Campus Life

The Student Development Office believes that your college experience is not just a degree, but also the opportunity to grow as a leader and person. It is an opportunity to see the world with a new perspective and to make connections and memories outside of the classroom. Student Development is there to help provide various opportunities through participation in programs such as the Associated Student Government (ASG), campus clubs, leadership programs, and campus life events. Whether on campus or virtually, Student Development has many great opportunities for you to get involved. For more information or to talk to someone about opportunities, visit https://www.saddleback.edu/studentdevelopment or contact scstudentdevelopment@saddleback.edu.

Rules and Regulations

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 5500)*. 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 *(AR 5500)*.

   1. Falsification involves any conduct in academic work, records or programs that is intended to deceive, including, but not limited to, the following acts:

      a. forging signatures on official documents such as admissions cards and financial aid applications.

      b. changing or attempting to change official academic records without proper sanction.

      c. misrepresenting or falsifying successful completion prerequisites.

      d. providing false information, such as immigration materials, during the admission or matriculation process.

      e. falsifying one's identification or falsely using another's identification.

      f. logging in or otherwise gaining access to a computer, computer network or protected web site using the password or identity of another.

      g. citation of data or information not actually in the source indicated.

      h. including in a reference list of works cited a text or other information source which was not used in constructing the essay, paper or other academic exercise.

      i. submission in a paper, lab report or other academic exercise of falsified, invented, or fictitious date or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence.

   j.   submitting as the student's own work any academic exercises (e.g., written work printing, sculpture, etc.) prepared totally or in part by another.
   k.   taking a test for someone else or permitting someone else to take a test for a student.
2. Plagiarism is any conduct in academic work or programs involving misrepresentation of someone else's words, ideas or data as one's original work, including, but not limited to, the following:
   a.   intentionally representing as one's own work the work, words, ideas or arrangement of ideas, research, formulae, diagrams, statistics, or evidence of another.
   b.   taking sole credit for ideas and/or written work that resulted from collaboration with others.
   c.   paraphrasing or quoting material without citing the source.
   d.   submitting as one's own a copy of or the actual work of another person, either in part or in entirety, without appropriate citation (e.g., term-paper mill or internet derived products).
   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.
   2.   If the conduct did not occur in the classroom, the district employee discovering the conduct will report the incident to the disciplinary officer and submit a written report on the appropriate form (i.e., Conduct Referral form). The report should include (a) date of the conduct, (b) location, (c) names of witnesses, and (d) a detailed explanation of the alleged misconduct along with a description of efforts made to correct behavior or action taken by employee.
   3.   When the report of alleged misconduct is sent to the disciplinary officer, the officer will evaluate the information to determine if it alleges a violation of the District's student conduct policy and/or regulations. If the disciplinary officer determines that the report supports such allegations, a meeting will be requested with the student to provide the student an opportunity to respond to the allegations.
   4.   The disciplinary officer will review all documentation related to the case to make a determination if disciplinary action is required.

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

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

B. Range of Disciplinary Actions
  1. Verbal reprimand: A warning that the conduct is not acceptable.
  2. Written reprimand: Becomes part of the student file for a minimum of five years or longer at the discretion of the disciplinary officer and is considered in the event of future violations.
  3. Mental Health Clearance: Mental health clearance may be required before a student is readmitted to a particular class or allowed to be on district property. The disciplinary officer (or designee) must receive a letter from a licensed mental health professional stating that in his or her professional judgment, the student will no longer continue the behavior which gave rise to the disciplinary action or that the student's presence on campus is not a threat to himself or herself or others. The mental health professional must be licensed by the State of California. The student shall bear the cost and expense of obtaining mental health clearance.
  4. Disciplinary Probation: A specific period of conditional participation in campus and academic affairs, which may involve any or all of the following:
     a. Ineligibility for all student government roles;
     b. Removal from any student government position;
     c. Revocation of the privilege of participating in district and/or student-sponsored activities;
     d. Ineligibility for membership on an athletic team;
     e. Limitation of courses and/or instructors the student may take.
  5. Suspension: The Board of Trustees or the disciplinary officer may suspend a student for 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
C. The student may appeal a Hearing Panel decision in writing to the college president, within ten days of the decision/recommendation. The basis for the appeal will include evidence to support one or more of the following factors:
  1. The decision lacks substantial basis in fact to support the findings,
  2. There is substantial incongruity between the proposed sanction and findings,
  3. There is substantial unfairness in the proceedings which has deprived the student of a fair and impartial process; and/or
  4. There is newly discovered critical evidence, that despite due diligence on the part of the student, was not known at the time of the hearing.

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

Faculty Code of Ethics and Professional Standards

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

Ethical Principle:

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

Standards of Conduct:

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

Drug-Free Workplace Policy

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

The Chancellor shall:

1. Distribute the following statement to all employees:
   You are hereby notified that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance, as defined in Schedules I-V of Section 202 of the Controlled Substances Act (21 U.S.C. 812), is prohibited in the workplace.
   You are further notified that, as a condition of your continued employment in this district which accepts federal grants, you will abide by the terms of this statement, and will notify the district of any criminal drug statute conviction (including a plea of nolo contendere), occurring in the workplace. Said notice shall be delivered no later than five (5) days after such conviction.
   The district will take appropriate personnel action, up to and including dismissal, against any employee found to have violated the provisions of this statement.
2. Establish a drug-free awareness program to inform employees about:
   A. The dangers of drug abuse in the workplace;
   B. The district's policy of maintaining a drug-free work place;
   C. Drug counseling, rehabilitation, and assistance programs available to eligible employees through the Employee Assistance Program; and
   D. The penalties that may be imposed by the district on employees for drug abuse violations.

Smoke Free Campus

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

The following guidelines shall apply:

1. Smoking and the use of all tobacco products is prohibited in all District buildings and on all District property.

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

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

Violators of this regulation may be subject to a citation.

Nondiscrimination and Harassment Policy

The South Orange County Community College District is committed to providing an academic and work environment free of unlawful discrimination and harassment. Federal and state laws and District policies afford students and employees the right to work or learn in an environment free from discriminatory intimidation, ridicule and insult.

The District prohibits illegal harassment including the acts of students, employees, and non-employees. Prompt and equitable action, including appropriate disciplinary action, will be taken against any student, employee (supervisory or otherwise), or agent of the District, who engages in such conduct. The action will be prompt, effective, and commensurate with the severity of the offense *(BP 3410/AR 3410)*.

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 *(AR 5530)*:

- 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

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

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

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

Further Information

For more comprehensive information about discrimination and harassment, students are encouraged to read the Harassment Policy and Complaint Procedure brochure, 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.

Students may also refer to Administrative Regulation 4500 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) *(AR 5530)*
      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.
   C. This policy does not apply to the following:
      1. The challenge process for prerequisites, corequisites, advisories, and limitations on enrollment.
      2. Student discipline.
      3. Employee discipline.
      4. Challenges to established district policies and administrative regulations.
      5. Financial claims against the District.
II. Definitions
   A. Mistake: an unintentional act, omission or error by the instructor or the college.
   B. Fraud: a deception deliberately practiced in order to secure unfair or unlawful gain.
   C. Bad Faith: an intent to deceive or to act in a manner contrary to law and/or a grade assigned because of a student's protected characteristics contrary to Education Code Section 66250 et. seq. (including, but not limited to, Section 66270) and Title 5, California Code of Regulations, Section 593000 et. Seq. If, pursuant to the discrimination and harassment complaint procedure it is determined that a grade was the results of discrimination or harassment the grade may be changed as a remedy for the discrimination or harassment.
   D. Incompetence: a lack of ability, legal qualification, or fitness to discharge a required duty.
   E. Day: Unless otherwise provided, day shall mean any day on which the District administrative offices are open for business. The deadlines contained herein may be modified by mutual agreement of the parties.
   F. Student: A currently enrolled student or a former student. Former students shall be limited to grievances relating to course grades to the extent permitted by Education Code Section 76224(a) and the provisions herein.
   G. Respondent: Any person claimed by a grievant to be responsible for the alleged grievance.
   H. The College President: The President of the College or a designated representative of the College President.
   I. Ombudsperson: The College President shall appoint an employee who shall assist students in seeking resolution by informal means. This person shall be called an ombudsperson.
III. Informal Resolution
   Any student who believes he or she has a grade grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a grievance hearing, and shall attempt to resolve the problem with the faculty member with whom the student has the grievance or that person's dean or designee. If informal resolution of the problem is not possible, the student may elect to pursue a formal grievance pursuant to the procedures herein.
IV. Formal Grievance Process
   A. Written Statement of Grievance
      Any student who believes he or she has a grade grievance shall file a written, signed Statement of Grievance form stating the basis for the grade grievance with the appropriate dean or designee no later than 45 days after the student knew or should have known of the grade in the course. The dean or designee shall provide a copy of the written Statement of Grievance form to the affected faculty member within 5 days after the form has been filed. The Statement of Grievance must be filed whether or not the student has initiated efforts at informal resolution, if the student wishes

the grievance to become official. The faculty member shall not engage in any conduct that may be construed as retaliation for filing the grievance. Filing a grievance is a protected activity.

B. Request for a Grievance Hearing

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

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

C. Grievance Hearing Panel
1. The Grievance Hearing Panel shall consist of the appropriate dean or designee, a representative appointed by the Associated Student Government and a faculty member appointed by the Academic Senate.
2. Within 15 days following receipt of the Request for Grievance Hearing, the Hearing Panel shall meet to select a Chair and to determine on the basis of the Statement of Grievance whether there is sufficient grounds for a hearing. 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.

Rules and Regulations

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 from AR 6750.

Article III: Speed Regulations

Section 301: Unless otherwise posted, no person shall operate a motor vehicle or bicycle within the confines of any District campus or facility at a speed greater than 15 miles per hour or as posted, except for emergency vehicles.

Article IV: Parking Regulations

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

    a.   Red Zone -- indicates no parking or stopping anytime whether the vehicle is attended or not. No Parking Area/Tow Away Zone.
    b.   Yellow Zone -- indicates an area for loading and unloading of vehicles and the parking of service vehicles. Loading/Unloading Only.
    c.   Green Zone -- indicates parking time is limited to the designated time, which is indicated by signs or other markings.
    d.   Blue Zone -- indicates disabled persons parking area by permit only.

Section 402: No person shall park in an area posted or marked as disabled parking unless a valid disabled persons placard, or distinguishing license plate is displayed on or in the vehicle for such parking in conjunction with a valid college parking permit.

Section 403:

a. No person shall park in an area posted or marked as parking by student permit only unless a valid parking permit is displayed on or in the vehicle.
b. No person shall park in an area posted or marked as staff parking unless a valid parking permit authorized for staff parking is displayed on or in the vehicle.
c. No person shall park in an area posted or marked as reserved parking, except by special permit.

Section 404: No student, faculty or staff member shall park in an area posted or marked as visitor parking only.

Section 405: No person shall stop, park or leave standing any vehicle in any area posted or marked as 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 that restrict, 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 except by special permit.

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

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. With the exception of VIP staff permits, parking permits do not authorize parking in metered spaces.

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

Section 415: No person shall park in a designated low emitting or fuel-efficient vehicle parking space unless the vehicle is an American Council for an Energy Efficient Economy (ACEEE) approved low emitting or fuel efficient vehicle.

Section 416: No person shall park in a designated electric vehicle charging parking space unless the vehicle is an electric charged vehicle and must be plugged into the electric vehicle charger.

Section 417: No person shall plug in an electric vehicle unless they are in a designated electric vehicle charging parking space.

Section 418: Electric Vehicle Parking/Charger – Electric Vehicle Charging is authorized for electric vehicles displaying the proper electric vehicle charging permit or when a service fee has been paid for charging the vehicle.

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 may be stored under authority of Section 21113A of the California Vehicle Code. Unless prior arrangements have been made with the Campus Police Department; recreational vehicles are not allowed to park overnight, nor are persons allowed to sleep overnight in their vehicles while on District campuses.

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

Article VI: Parking Permits

Section 601: All parking permits will be issued under the authority of the Police Departments at Saddleback College or Irvine Valley College.

Section 602: A valid parking permit must be visibly displayed within the 5 inch square in the lower corner of the windshield nearest the driver, as described in CVC 26708(b)(3), in any vehicle parked on campus (metered spaces excepted) at all times, 24 hours a day, seven days a week.

Section 603: Staff Parking Permits for automobiles and motorcycles may be purchased from the Police Departments at Saddleback College or Irvine Valley College by 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 as staff parking. These permits are not valid in metered areas.

Section 604: Student Parking Permits will allow parking in areas posted or marked as parking by permit only. These permits are not valid in visitor or metered areas. Student Parking Permits may be purchased during the student registration process online or from the Police Departments at Saddleback College or Irvine Valley College. Students must be registered and enrolled in one or more classes to purchase a parking permit.

Section 605: Motorcycle Parking Permits will allow parking in areas posted or marked as motorcycle parking only. These permits are not valid in student, staff, visitor or metered areas. Motorcycle Parking Permits may be purchased from the Police Departments at Saddleback College or Irvine Valley College. Students must be registered and enrolled in one or more classes to purchase a motorcycle parking permit.

Section 606: Guest parking permits which have been duly issued and authorized by the Chief of Police at Saddleback College, the Chief of Police at Irvine Valley College, or designee, will be acknowledged and parking will be permitted in the designated locations identified on the temporary parking permit form. These permits are not valid in metered areas and are valid only at the college where the permit was issued.

Section 607: Special Event Parking

   a. Written requests shall be made through the Chief of Police, or designee, on a semester basis, or at a minimum of two weeks in advance, stating the lot to be reserved so that all concerned persons will know, well in advance, that the lot is to be used for a special event on a particular day or night.
   b. The college president or designee shall be the final authority to determine and approve events that qualify for special event parking at their campus.
   c. The sponsoring organization will be responsible for reimbursing the Police Department for the cost of a police officer when traffic control related to a special event is required.

Section 608: Disabled Persons Parking - Persons with a valid Department of Motor Vehicles issued Disabled Persons placard or license plate must also display a valid college parking permit in conjunction with their Department of Motor Vehicles issued Disabled Persons placard or distinguishing license plate.

Section 609: 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. Applications or renewal of these permits shall be supported by a statement from a physician indicating probable time of the medical problem. Upon the approval of such an application by the director of the Student Health Center, the Police Department at Saddleback College or Irvine Valley College will issue the Medical Parking Permit. This Medical Parking Permit allows parking in areas posted or marked as staff parking. 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 visitor or metered areas.

Section 610: Parking Permits - Every vehicle that occupies a space designated for an automobile, motorcycle or motor scooter must display a valid permit at all times. Valid Permit - A valid permit is:

   a. An unexpired parking permit issued by the Police Department at Saddleback College or Irvine Valley College. The permit shall be displayed on the inside of the vehicle in the 5 inch square in the lower corner of the windshield nearest the driver, or on the left front fork on motorcycles and motor scooters.
   b. A valid Temporary Permit issued by the Police Department and displayed in accordance with instructions on permit.
   c. An unexpired student parking permit being used by a current student enrolled in one or more classes to whom the permit is registered.
   d. An unexpired staff parking permit being used by a current employee of the District to whom the permit is registered.

Section 611: Invalid Permit - A permit is invalid when:

   a. The time or date has expired.
   b. Any portion is not clearly and completely legible.
   c. It is being misused or fraudulently used.
   d. It is altered or forged.

Section 612: Permit Issuance - There is a fee for parking permits. Permits will be sold and issued by the Police Department at Saddleback College or Irvine Valley College or an authorized vendor approved by the Police Department at Saddleback College or Irvine Valley College, upon proof of enrollment with the respective college or proof of employment with the South Orange County Community College District, and the collection of the appropriate fee. All parking permits are non-transferable from person to person and are only valid when used by the person to whom the permit is registered. Students are required to purchase their parking permits from the college designated as their college of record.

Section 613: Additional Permits

Staff - Employees may purchase one (1) additional permit for another personally owned vehicle. Employees that purchase an additional permit must sign a statement agreeing that at no time will more than one (1) of the employee's personally owned vehicles be parked on campus.

Students - Students may purchase one (1) additional permit for a motorcycle as an alternate vehicle. An additional permit may not be purchased for an automobile if a motorcycle is the primary vehicle. Students that purchase an additional permit must sign a statement agreeing that at no time will the automobile and motorcycle be simultaneously parked on campus.

Section 614: Unregistered Alternate Vehicle - Permit holders may obtain a free Temporary Permit for up to two weeks for an alternate vehicle which does not have a permit. After that time, a regular permit must be obtained for a fee.

Article VII - Schedule of Parking Fees

1. Student vehicles:
    a. Automobiles
        Please visit https://www.saddleback.edu/police/Parking-Services-and-FAQs 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 https://www.saddleback.edu/police/Parking-Services-and-FAQs for a current list of parking fees.
    c. Short-term Parking — all motor vehicles
        Please visit https://www.saddleback.edu/police/Parking-Services-and-FAQs 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

Saddleback College Students ride the OCTA bus for Free!

For information about how to get your **FREE** student pass, and routes available in Orange County, visit www.ocbus.com/sc.

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
FW**	Failing Withdrawal	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)	

**FW - Failing Withdrawal. The FW may be assigned when the student has ceased participating in a course after the last day to officially withdraw from the course without having achieved a final passing grade.

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

Non-Evaluative Symbol

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

EW	Excused Withdrawal. The Excused Withdrawal may be permitted when specific events beyond the control of the student affected the student's ability to complete a course(s). These events may include job transfer outside the geographical region where commuting is impractical, illness of family member where the student is the primary caregiver, other circumstance beyond the control of the student. The student must appeal to the Admissions and Records Office and provide supporting documentation. Upon verification, this symbol may be assigned at any time after the period during which no notation is made for withdrawals. Excused Withdrawals shall not be counted in progress probation, dismissal calculations or calculating the maximum number of enrollments permitted for course repeatability.
MW	The "MW" symbol shall be used for students who are members of an active or reserve military service and receive orders compelling a withdrawal from courses. Upon verification of such orders, this symbol may be assigned at 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.
IP	The "IP" symbol is used to denote that the class extends beyond the normal end of an academic term. It indicates that work is "in progress," and that assignment of a substantive grade must await its completion. The appropriate evaluative grade and unit credit appear on the student's record for the term in which the course is completed. The "IP" is not used in calculating the grade-point average.
SP	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.
UG	Ungrade (non-credit courses only). The "UG" symbol shall be used to denote the student was enrolled in an ungraded non-credit course.

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.

The previously recorded course and grade will remain on the student's transcript and the transcript will show which course was excluded for purposes of grade point calculation. Only the most recent course grade earned will be used in calculating the student's grade point average. **A maximum of two previous grades per course may be disregarded in computing the student's grade point average.** All previous work will remain on the student's transcript to ensure a true and complete academic history.

Repetition for Special Circumstances

Significant Lapse of Time

Students may be considered for an additional enrollment after they have successfully completed a course if:

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

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

Extenuating Circumstances

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

Legally Mandated Training

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

Significant Change in Industry or Licensure Standards

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

Special Classes for Students with Disabilities

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

1. The student's continuing success in general and/or special classes is dependent upon additional enrollments in a specific special class,
2. Additional enrollments in a specific special class are essential to completing the student's preparation for enrollment into other special or general courses,
   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.

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.

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 (Administrative Regulation 6122 (4240), defined in accordance with Title 5, California Code of Regulations, Section 55046.Students must complete the following requirements:

In order to qualify for Academic Renewal, 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," "FW," or "NP."
4. No more than 30 units of coursework can be considered for academic renewal.
5. A period of at least two terms must have elapsed since the work to be alleviated was completed.
6. The student must have completed 18 units with a 2.00 GPA, 15 units with a 2.25 GPA or 12 units with a 2.5 GPA or higher in sessions subsequent to the substandard work. No units may be excluded for coursework that has previously been used to fulfill degree, certificate, or transfer certification requirements. Work from other accredited colleges will be considered for calculating their GPA.
7. 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 reinstated, 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

Credit for prior learning (CPL) is college credit awarded for validated college-level skills and knowledge gained outside of a college classroom.

Students may receive CPL in place of a comparable course or graduation requirement, including elective units, listed in the current college catalog through the following approved alternative methods for awarding credit:

    A.   Achievement of a satisfactory score on an approved standardized examination
    B.   Evaluation of military service/training
    C.   Evaluation of industry recognized training/credential documentation
- Credit for industry recognized credential will be granted as long as the official documentation of the credential is on file in the Admissions and Records Office. *(See BP/AR 4235 for more information)*

    D.   Evaluation of student-created portfolios
- Students may receive Credit for Prior Learning using a student-created portfolio if a department has an approved portfolio assessment rubric for the course on file. *(See BP/AR 4235 for more information)*

    E.   Satisfactory completion of an institutional examination, known as Credit by Examination, administered by the college in lieu of completion of an active course listed in the current college catalog

Assessment of a Standardized Examination Score

The colleges may grant credit for achievement of a satisfactory score with the following standardized exams:

    1.   Advanced Placement (AP) examination
    2.   International Baccalaureate (IB) examination
    3.   College Level Examination Program (CLEP)
    4.   Defense Language Proficiency Test (DLPT)

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 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.

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.

AP 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 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

2021-2022 College Credit for AP Exams was not available at the time of publication.

Once available, it will be viewable in the catalog Spring 2022 addendum at catalog.saddleback.edu.

Please meet with a counselor for the most up-to-date information.

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

*AP exams in Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism will be given 3 semester or 4 quarter units for Areas 5A and 5C for IGETC Certification. Students who complete these exams will be required to complete at least 4 semester or 5 quarter units in Area 5B or 3 semester or 4 quarter units in Area 5B plus an additional course in either Areas 5A or 5B to satisfy the minimum required units for IGETC Certification Area 5.

Advanced Placement Exam	Saddleback College AA/AS Credit Awarded for GE, Major and/or Elective Units	CSU GE Certification Area/Semester Units	CSU Minimum Admission Semester Units	IGETC Certification Area/Semester Units	UC Admissions Semester Units
Art History	Arts/Humanities - 3	Area C1 or C2 3	6	Area 3A or 3B 3	5.3
Art, Studio 2D Design 3D Design Drawing	Elective - 3 Elective - 3 Elective - 3	N/A	3	N/A	5.3 (Max for all Studio Art Exams)
Biology	Natural Sciences - 4 Credit for BIO 20	Area B2 and B3 4	6	Area 5B and 5C (lab) 4	5.3
Chemistry	Natural Sciences - 4 Credit for CHEM 3	Area B1 and B3 4	6	Area 5A and 5C (lab) 4	5.3
Chinese - Language & Culture	Arts/Humanities - 3	Area C2 3	6	Area 3B and 6A 3	5.3
Computer Science - A Exam	Elective - 3	N/A	3 (only one CS Exam may be applied)	N/A	1.3 (prior to Fall '18) 5.3 (Fall '18 and later) (2.6 maximum credit for both Computer Science A and Computer Science AB exams)
Computer Science - AB Exam Only	N/A	N/A	6 (only one CS Exam may be applied)	N/A	2.6 (2.6 maximum credit for both Computer Science A and Computer Science AB exams)
Computer Science - Principles	Elective - 3	B4	6 (only on CS exam may be applied)	N/A	5.3
Economics - Macro Exam	Social/Behavioral Sciences - 3 Credit for ECON 2 with a score of 5	Area D 3	3	Area 4 3	2.6
Economics - Micro Exam	Social/Behavioral Sciences 3 Credit for ECON 4 with a score of 5	Area D 3	3	Area 4 3	2.6
English - Language and Composition	Language/Rationality 1A - 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)

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
English - Literature and Composition	Language/Rationality 1A or Arts/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)
Environmental Science	Natural Sciences - 4	Area B1 and B3 4	4	Area 5A and 5C (lab) 3*	2.6
French - Language & Culture	Arts/Humanities - 3	Area C2 3	6	Area 3B and 6A 3	5.3
German - Language & Culture	Arts/Humanities - 3	Area C2 3	6	Area 3B and 6A 3	5.3
Government and Politics - United States	Social/Behavioral Sciences - 3	Area D and US-2 3	3	Area 4 3	2.6
Government and Politics - Comparative	Social/Behavioral Sciences - 3 Credit for PS 12 with a score of 5	Area D 3	3	Area 4 3	2.6
History - United States	Social/Behavioral Sciences - 3 Credit for HIST 22	(C2 & US-1) or (D & US-1) 3	6	Area 3B or 4 3	5.3
History - European	Social/Behavioral Sciences or Humanities - 3	Area C2 or D 3	6	Area 3B or 4 3	5.3
History - World: Modern	Social/Behavioral Sciences or Arts/Humanities - 3 Credit for HIST 5	Area C2 or D 3	3	Area 3B or 4 3	5.3
Human Geography	Social/Behavioral Sciences - 3	Area D 3	3	Area 4 3	2.6
Italian - Language & Culture	Arts/Humanities - 3	Area C2 3	6	Area 3B and 6A 3	5.3
Japanese - Language & Culture	Arts/Humanities - 3	Area C2 3	6	Area 3B and 6A 3	5.3
Latin - Vergil	Arts/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	2.6
Latin	Arts/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
Mathematics - Calculus AB Exam	Language/Rationality 1C - 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	2.6 5.3 max if more than one AP exam in Calculus
Mathematics - Calculus BC Exam	Language/Rationality 1C - 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	2.6 5.3 max if more than one AP exam in Calculus
Mathematics - Calculus BC/AB Subscore	Language/Rationality 1C - 3	Area B4 3	3 (only one Calculus AP exam applied toward degree)	Area 2A 3	2.6 5.3 max if more than one AP exam in Calculus
Music Theory	Arts/Humanities - 3	Area C1 3 (only applies if taken before Fall 09)	6 (only applies if taken before Fall 09)		5.3
Physics 1	Natural Sciences - 4 Credit for PHYS 2A	Areas B1 and B3 4 If more than one AP exam in Physics, only 4units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 4	5.3 5.3 max if more than one AP exam in Physics
Physics 2	Natural Sciences - 4	Areas B1 and B3 4 If more than one AP exam in Physics, only 4units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 4	5.3 5.3 max if more than one AP exam in Physics
Physics C - Mechanics	Natural Sciences - 4	Areas B1 and B3 4 If more than one AP exam in Physics, only 4units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 3*	2.6 5.3 max if more than one AP exam in Physics

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
Physics C - Electricity/Magnetism	Natural Sciences - 4	Areas B1 and B3 4 If more than one AP exam in Physics, only 4units max for GE	4 If more than one AP exam in Physics, only 6 units max	Area 5A and 5C (lab) 3*	2.6 5.3 max if more than one AP exam in Physics
Psychology	Social/Behavioral Sciences - 3 Credit for PSYC 1	Area D 3	3	Area 4 3	2.6
Spanish - Language and Culture	Arts/Humanities - 3	Area C2 3	6	Area 3B and 6A 3	5.3
Spanish - Literature and Culture	Arts/Humanities - 3	Area C2 3	6	Areas 3B and 6A 3	5.3
Statistics	Language/Rationality 1C - 3 Credit for MATH 10 with a score of 3 a) completed with a "C" or better	Area B4 3	3	Area 2A 3	2.6

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

2021-2022 College Credit for IB Exams was not available at the time of publication.

Once available, it will be viewable in the Catalog Spring 2021 addendum at catalog.saddleback.edu.

Please meet with a counselor for the most up-to-date information.

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
IB BIOLOGY HL	3 Natural Science No Lab	5	AREA B2 (without Lab) 3	6	AREA 5B (without Lab) 3	5.3
IB CHEMISTRY HL	3 Natural Science No Lab	5	AREA B1 (without Lab) 3	6	AREA 5A (without Lab) 3	5.3
IB ECONOMICS HL	3 Social/Behavioral Sciences	5	AREA D 3	6	AREA 4B 3	5.3
IB GEOGRAPHY HL	3 Natural Science	5	AREA D 3	6	AREA 4E 3	5.3
IB HISTORY (ANY REGION) HL	3 Social/Behavioral Sciences	5	AREA C2 or D 3	6	AREA 3B or 4F 3	5.3
IB LANGUAGE A1 (ENGLISH) HL	3 Arts/Humanities	4	AREA C2* 3	6 *	AREA 3B 3	5.3
IB LANGUAGE A1 (ANY OTHER LANGUAGE) HL	3 Arts/Humanities	4	AREA C2* 3	6 *	AREA 3B & 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
IB LANGUAGE A2 (ENGLISH) HL	3 Arts/Humanities Area 4	4	AREA C2* 3	6 *	AREA 3B 3	5.3
IB LANGUAGE A2 (ANY OTHER LANGUAGE) HL	3 Arts/Humanities Area 4	4	AREA C2* 3	6 *	AREA 3B & 6A 3	5.3
IB LANGUAGE A LITERATURE HL	3 Arts/Humanities	4	Area C2* 3	6	Area 3B 3	5.3
IB LANGUAGE B (ANY LANGUAGE) HL	3 Arts/Humanities	4	N/A 0	6 *	AREA 6A 3	5.3
IB MATHEMATICS HL	3 Mathematics	4	AREA B4* 3	6 *	AREA 2A 3	5.3
IB PHYSICS	3 Natural Science No Lab	5	AREA B1 (without Lab) 3	6	AREA 5A (without Lab) 3	5.3
IB PSYCHOLOGY	3 Social/Behavioral Sciences	5	AREA D9 3	3	AREA 4J 3	5.3
IB THEATRE HL	3 Arts/Humanities	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 scores can also 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).

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.

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

2021-2022 College Credit for CLEP Exams was not available at the time of publication.

Once available, it will be viewable in the catalog Spring 2022 addendum at catalog.saddleback.edu.

Please meet with a counselor for the most up-to-date information.

***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
CLEP American Government	3 units Social/Behavioral Sciences	3	Area D - 3 units
CLEP American Literature	3 units Arts/Humanities	3	Area C2 - 3 units
CLEP Analyzing and Interpreting Literature	3 Units Arts/Humanities	3	Area C2 - 3 units
CLEP Biology	Undergoing Department Review	3	Area B2 - 3 units
CLEP Calculus	3 units Mathematics Placement MATH 3B	3	Area B4 - 3 units
CLEP Chemistry	Undergoing Department Review	3	Area B1 - 3 units
CLEP College Algebra	3 units Mathematics Placement Transfer Level Math	3	Area B4 - 3 units
CLEP College Algebra - Trigonometry	3 units Mathematics 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
CLEP College Mathematics	N/A	0	N/A
CLEP English Composition (No Essay)	N/A	0	N/A
CLEP English Composition with Essay	N/A	0	N/A
CLEP English Literature	3 Units Arts/Humanities	3	Area C2 - 3 units
CLEP Financial Accounting	N/A	3	N/A
CLEP French* Level I	3 units Arts/Humanities	6	N/A
CLEP French* Level II	3 units Arts/Humanities	12^	Area C2 - 3 units with score of 59
CLEP Freshman College Composition	N/A	0	N/A
CLEP German* Level I	3 units Arts/Humanities	6	N/A
CLEP German* Level II	3 units Arts/Humanities	12^	Area C2 - 3 units with score of 60
CLEP History, United States I	3 units Social/Behavioral Sciences	3	D + US − 1 3 units
CLEP History, United States II	3 units Social/Behavioral Sciences	3	D + US − 1 3 units
CLEP Human Growth and Development	3 units Social/Behavioral Sciences	3	Area E - 3 units
CLEP Humanities	3 units Arts/Humanities	3	Area C2 - 3 units
CLEP Information Systems and Computer Applications	N/A	3	N/A
CLEP Introduction to Educational Psychology	N/A	3	N/A
CLEP Introductory Business Law	N/A	3	N/A

EXAM	SADDLEBACK COLLEGE AA/AS CREDIT FOR GE	MINIMUM SEMESTER TRANSFER CREDITS EARNED	CSU CERTIFICATION AREA/SEMESTER UNITS
CLEP Introductory to Psychology	3 units Social/Behavioral Sciences	3	Area D9 - 3 units
CLEP Introductory to Sociology	3 units Social/Behavioral Sciences	3	Area D -3 units
CLEP Natural Science	3 units Natural Science including Lab	3	Area B1 or B2 - 3 units
CLEP Pre-Calculus	3 units Mathematics - 1C Placement Math 3A	3	Area B4 - 3 units
CLEP Principles of Accounting	N/A	3	N/A
CLEP Principles of Macro Economics	3 units Social/Behavioral Sciences	3	Area D - 3 units
CLEP Principles of Management	N/A	3	N/A
CLEP Principles of Marketing	N/A	3	N/A
CLEP Principles of Micro Economics	3 units Social/Behavioral Sciences	3	Area D - 3 units
CLEP Social Sciences and History	N/A	0	N/A
CLEP Spanish* Level I	3 units Arts/Humanities	6	N/A
CLEP Spanish* Level II	3 units Arts/Humanities	12^	Area C2 - 3 units with score of 63
CLEP Trigonometry	3 units Mathematics Placement MATH 2	3	Area B4 - 3 units
CLEP Western Civilization I	3 units Arts/Humanities	3	Area C2 or D - 3 units
CLEP Western Civilization II	3 units Arts/Humanities	3	Area D - 3 units

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, and the course is non-repeatable (see Course Repeatability and Repetition policy).

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.

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.

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 or other military service record 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 non-collegiate 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 associate degree, CSU and/or IGETC certification or certificate. Military evaluation forms are available in VETS Program.
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.

Other Educational Opportunities

Community Education

The Community Education guide is mailed three times per year. The guide details all offerings for adults in areas such as business, art, music, entrepreneurship and technology, as well as featuring College For Kids and summer aquatics programs. CE also provides After School and Summer Enrichment programs in partnership with Capistrano Unified School District.

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 (CWE) or "internship" program with measurable objectives and results. It 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. CWE credit is available when stipulated in the catalog as a requirement for completion of an Occupational/Career Technical Education Certificate Program or by petition to a faculty member within the department of the student's major. CWE applications are available in the Division of Business Science, Economic Workforce Development office. Visit www.saddleback.edu/cwe for more information.

CTE Transitions - Programs for High School to College Articulation Students

Saddleback College maintains faculty-approved formal course articulation agreements with local 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, Health Science, Horticulture, Interior Design, Journalism, Kinesiology, Manufacturing, Commercial Music, Photography, Real Estate and Theater Arts. For a complete listing, see the CTE Transitions website at www.saddleback.edu/cte.

Students who successfully complete a CTE 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. For high school students who successfully complete the CATEMA software process, the credit will be posted to their official Saddleback College transcript. If the CATEMA software is not used, eligible high school students should make an appointment with a Saddleback College counselor.   The counselor will verify Articulation Agreement and their high school transcript, to assist them in completing a CTE 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 mission of the Saddleback College Emeritus Institute is to promote lifelong learning by providing academically rigorous, mentally stimulating, socially engaging, and health improving courses for older adults. All courses are tuition-free, non-credit courses and are open to California's lifelong learners and those looking to prepare for a second career. The Emeritus Institute offers courses online and at 30 off-campus locations convenient to the older adults of the Saddleback College community.

Emeritus Institute courses are designed to meet the academic and critical-thinking challenges of each discipline. Disciplines include Accounting, Art, Biology, English, Fashion, Foreign Language, Gerontology, History, Health, Health Sciences, Humanities, Music, Philosophy, Photography, Political Science, and Theatre.

For further information regarding the Emeritus Institute program call 949-582-4835 or 770-9669 or access our website at www.saddleback.edu/emeritus.

Study-Abroad Programs

Study abroad provides students with a unique opportunity to broaden their horizons, enrich their academic experience, and develop valuable intercultural and/or language skills. Saddleback College offers a variety of study abroad programs that integrate classroom learning with exposure to different cultures and environments, as students explore the natural beauty and ecology of a foreign country; savor its foods; live among its people; visit its galleries, theaters, museums, and night clubs; and take excursions to unique heritage sites and biological reserves, all while earning transferable college credits and developing new perspectives on academic subjects and real-world issues.

Recently run and upcoming study abroad programs at Saddleback include programs in various disciplines/divisions and in various locations: Brazil, Cuba, England, France, Ireland, Italy, Mexico, Peru, and Spain. For listings and information on current and upcoming programs, click here.

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. We promote educational equity by welcoming and serving high-potential learners from all communities and backgrounds. We are an open-access program, allowing all students interested in doing Honors coursework to enroll in our courses.

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 the "H" transcript notation next to their grade. 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 for this year's dates. Students should apply as soon as possible regardless of the priority registration dates in order to be eligible for Honors counseling and other benefits that might affect their transfer.

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, special counseling, and other benefits.

Honors Transfer

Students who complete the Honors Program Certificate requirements in good standing are eligible for special admission consideration at over 30 colleges and universities. Additional requirements (e.g., major preparation, GPA) usually exist. Because of the complexity of Honors Program transfer partnerships, students meet each semester with an Honors counselor in the Transfer Center. Some agreements include scholarships, Honors-to-Honors transfer, and other benefits. No agreements provide guarantees.

Certificate-Track Status Requirements

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

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, service each semester, unless excused; commit no acts of academic dishonesty; attend annual Orientation/Re-Orientation workshops; and maintain good communication with the Transfer Center and the Honors Program Office.

Requirements for the Certificate

1. Coursework:
   a. Composition Requirement (usually in the first year):
      - Option 1: English 1AH or
      - Option 2: English 1BH or
      - Option 3: Library Science 2H and any Honors English literature course
   b. Breadth Requirement:
      - For Option 1 above: Eight units selected from any Honors classes
      - For Option 2 and 3 above: Nine units selected from any Honors classes
   c. Capstone Requirement (usually in the year before transfer):
      - HON 11H, HON 12H, HON 13H, or HON 14H
2. Completion of all Honors classes with a GPA of at least 3.20. All Honors courses must be graded.
3. Earned UC-transferable GPA of 3.25 at time of completion.
4. Good standing at time of completion.

For further Information call 949-582-4853, email schonorsprogram@saddleback.edu, or visit www.saddleback.edu/honors.

Graduation Requirements

If a student has met all of the requirements for a degree or certificate, Saddleback College may automatically award some of these without further action needed from the student. However, to ensure that the degree or certificate is awarded and posted, students are encouraged to apply through MySite for conferral of the award during their final semester. Official transcripts for any prior work must be on file for the coursework to be considered. The dates to file a Petition for Graduation are:

- Nov 2 - March 1* for spring graduation
- March 2 - July 1* for summer graduation
- July 2 - November 1* for fall graduation

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

Associate of Arts (AA) and Associate of Science (AS) Degree

Upon completion of the following requirements, the South Orange County Community College District Board of Trustees will confer the Associate degree. *(BP 4025/BP 4100)*

I.   **Unit Requirement**: Units of Course Credit — minimum 60 units. Courses numbered 1-299 at Saddleback are degree applicable towards the AA and AS degrees. Courses numbered 1-199 are applicable towards the Associate Degree for Transfer.

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.   The General Education patterns are viewable at https://www.saddleback.edu/articulation/IGETCCSU-Degree-Resources. Choose one General Education pattern to complete (1, 2, or 3):

1. Associate Degree – General Education Requirements (Local GE), or
2. The California State University General Education (CSU GE) Breadth Certification pattern, or
3. The Intersegmental General Education Transfer Curriculum (IGETC) 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.   The Associate Degree general education pattern is available at https://www.saddleback.edu/articulation/IGETCCSU-Degree-Resources. *(AR 5120)*

Associate Degree 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.

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. 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 transferable semester units. Courses numbered 1-199 at Saddleback are applicable towards the AA-T and AS-T degrees;
   a. A minimum grade point average (GPA) of 2.0 in all 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.);
   b. 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. Note: A letter grade is preferred by transfer institutions; and
2. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. The CSU GE and IGETC patterns are available at https://www.saddleback.edu/articulation/IGETCCSU-Degree-Resources

At the time of catalog publication, a student may earn an Associate Degree for Transfer in Anthropology, Art History, Biology, Business Administration, Child and Adolescents Development, Communication Studies, Early Childhood Education, Economics, Elementary Teacher Education, English, Environmental Studies, Film, Television, and Electronic Media, Geography, Geology, Global Studies, History, Hospitality Management, 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 for more information.

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. *(BP 4100/BP 4027)*

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 or https://www.saddleback.edu/uploads/admissions/documents/petition_for_course_waiver_or_substitution.pdf. 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 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. *(BP 4100/BP 4027)*

It is the student's responsibility to make a formal application for the Certificate of Competency to the Office of Admissions and Records. The application for the Certificate of Competency 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 students to progress in a career path or to take degree-applicable credit courses. *(BP 4100/BP 4027)*

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.

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 15.5 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.

Credit from Prior Accredited Higher Education 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 an *****Associate degree from a California Community College or a ******Bachelor's degree or higher at a regionally accredited college or university, has met the Associate Degree General Education requirements at Saddleback College. Please consult with a counselor if your program of study requires additional admissions requirements or prerequisites.

*Students who have completed an Associate degree from a California Community College prior to Fall 2009, will be held to the current Math requirement.

**Students who have earned a Bachelor's degree or higher at a foreign institution must provide a transcript evaluation verifying completion of a course conducted in English equivalent to ENG 1A with a grade of "C" or higher.

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: https://www.saddleback.edu/uploads/iso/foreign_transcript_evaluation_services.pdf

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.

Degrees, Certificates, and Awards Index

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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 16 Units or more	Certificate of Achievement – Vocational Program or other area approved by the State Chancellor's Office 8 to fewer than 16 Units	Occupational Skills Award – Vocational Program (6-15.5 Units)

Non Credit Certificates Offerings

- Certificate of Competency – Non Credit ESL and Adult Education
- Certificate of Completion – Non Credit Certificate

Credit Degrees, Certificates and Awards

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 of 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 degree 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:

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B * or	Managerial Accounting	4
ACCT 203 *	Cost Accounting	3
ACCT 202A *	Intermediate Accounting I	3
ACCT 202B *	Intermediate Accounting II	3
ACCT 216 *	Individual Income Tax	4
ACCT 217 *	Partnership and Corporate Taxation	3
ACCT 275 *	Auditing	3
BUS 13	Legal Environment and Business Law	3
	TOTAL UNITS FOR THE MAJOR:	**26-27**

*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 and to the Associate Degree – General Education Requirements in this catalog for specific courses which meet general education requirements.

Suggested coursework not required for the major: ACCT 210, ACCT 215, BUS 1, BUS 102, BUS 103, BUS 104, BUS 125, CIM 1, CIM 112, CIMA 104, CIMA 106, CIMN 100, 100A; ECON 2, ECON 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 Ledge 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:

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B * *or*	Managerial Accounting	4
ACCT 203 *	Cost Accounting	3
ACCT 202A *	Intermediate Accounting I	3
ACCT 202B *	Intermediate Accounting II	3
ACCT 216 *	Individual Income Tax	4
ACCT 217 *	Partnership and Corporate Taxation	3
ACCT 275 *	Auditing	3
BUS 13	Legal Environment and Business Law	3
	TOTAL UNITS FOR THE CERTIFICATE:	**26-27**

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

Suggested coursework not required for the major: ACCT 210, ACCT 214, ACCT 215, BUS 1, 102, 103, 104, 125; CIM 1, 112; CIMN 100, 100A; CIMA 104, 106, ECON 2, 4

Computerized Accounting Specialist
Associate of 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:

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B *	Managerial Accounting	4
ACCT 216 *	Individual Income Tax	4
ACCT 221 *	Accounting Information Systems	3
CIMA 104 +	Spreadsheets - Excel	3
CIMA 223B *	Computerized Accounting - Quickbooks--Advanced	1.5
	Select from Restricted Electives	3
	TOTAL UNITS FOR THE MAJOR:	**22.5**
Restricted Electives:		
ACCT 120	Introduction to Financial Planning	3
ACCT 202A *	Intermediate Accounting I	3
ACCT 217 *	Partnership and Corporate Taxation	3
ACCT 275 *	Auditing	3

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

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 and to the Associate Degree – General Education Requirements in this catalog for specific courses which meet general education requirements.

Suggested coursework not required for the major: ACCT 210, ACCT 215; BUS 1 or BUS 1H, 102, 103, 104, 125; CIM 1, 112; CIMN 100; CIMA 106; ECON 2 or ECON 2H, ECON 4 or ECON 4H.

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:

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B*	Managerial Accounting	4
ACCT 216 *	Individual Income Tax	4
ACCT 221 *	Accounting Information Systems	3
CIMA 104 +	Spreadsheets - Excel	3
CIMA 223B *	Computerized Accounting - Quickbooks--Advanced	1.5
	Select from Restricted Electives	3
	TOTAL UNITS FOR THE CERTIFICATE:	**22.5**
Restricted Electives:		
ACCT 120	Introduction to Financial Planning	3
ACCT 202A *	Intermediate Accounting I	3
ACCT 217 *	Partnership and Corporate Taxation	3
ACCT 275 *	Auditing	3

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

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

Tax Preparation
Associate of Science

This program provides students with sufficient knowledge of Federal tax law to prepare individual and small business tax returns and to obtain an entry-level position as a tax preparer or bookkeeper. This program at the current time does not certify individuals as a tax preparer in the State of California.

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 tax law.
- Analyze basic tax information and prepare related federal tax returns.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area.

REQUIRED CORE

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 216 *	Individual Income Tax	4
ACCT 217 *	Partnership and Corporate Taxation	3
BUS 13	Legal Environment & Business Law	3
CIMA 104 +	Spreadsheets: Excel -- Beginning	3
CIMA 223A * or	Computerized Accounting: QuickBooks-Beginning	1.5
CIMA 223B	Computerized Accounting: QuickBooks-Advanced	1.5
	Select from Restricted Electives	3
TOTAL UNITS FOR THE MAJOR:		**21.5**
RESTRICTED ELECTIVES: Select one course from the following:		
ACCT 215	General Accounting	3
ACCT 235	Entrepreneurial Accounting	3

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

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

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.

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

Tax Preparation
Certificate of Achievement

This program provides students with sufficient knowledge of Federal tax law to prepare individual and small business tax returns and to obtain an entry-level position as a tax preparer or bookkeeper. This program at the current time does not certify individuals as a tax preparer in the State of California.

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 tax law.
- Analyze basic tax information and prepare related federal tax returns.
- Demonstrate proficiency in communicating financial information in the subject area.
- Present an oral presentation in the designated subject area

REQUIRED CORE

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 216 *	Individual Income Tax	4
ACCT 217 *	Partnership and Corporate Taxation	3
BUS 13	Legal Environment & Business Law	3
CIMA 104 +	Spreadsheets: Excel--Beginning	3
CIMA 223A * or	Computerized Accounting - QuickBooks--Beginning	1.5
CIMA 223B *	Computerized Accounting - QuickBooks--Advanced	1.5
	Select from Restricted Electives	3
TOTAL UNITS FOR THE CERTIFICATE		**21.5**
RESTRICTED ELECTIVES: Select one course from the following:		

Course ID	Title	Units
ACCT 215	General Accounting	3
ACCT 235	Entrepreneurial Accounting	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
+Completion of the A and B versions of this course can also be used to fulfill this requirement.
Suggested coursework not required for the major: ACCT 120, 202B, 203, BUS 1, 1H, 102,103, 104, 125 ,CIM 1, 10, 112, CIMA 104B*,106, CIMN 100, ECON 2, 2H, 4, 4H

Administrative Assistant

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:

Course ID	Title	Units
BUS 103	Business English	3
CIM 1 or	Computer Information Systems	4
CIM 10 or	Introduction to Information Systems	3
CIM 112	Microsoft Office	3
CIMA 283B	Office Skills - Keyboarding	0.5
CIMA 102 +	Word Processing - Word	3
CIMA 104 +	Spreadsheets - Excel	3
CIMA 108	Business Presentations - Powerpoint	3
CIMN 100 +	Computer Operating Systems - Windows	3
	Restrictive Electives	3
TOTAL UNITS FOR THE MAJOR:		**21.5-22.5**
Restricted Electives (3 Units)		
BUS 102	Oral Business Communications	3
BUS 104 *	Business Communication	3
BUS 125	Human Relations in Business	3
CIM 120	Computer Literacy	1.5
CIMA 106	Database - Access	3
CIMA 212	Managing Projects with Microsoft Project	3
CIMA 223A *	Computerized Accounting - Quickbooks--Beginning	1.5
CIMA 223B *	Computerized Accounting - Quickbooks--Advanced	1.5
CIMW 100* +	Web Site Development - HTML	3
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 207	Social Media & Web Fundamentals	1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate 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.

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Administrative Assistant
Certificate of Achievement

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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:

Course ID	Title	Units
BUS 103	Business English	3
CIM 1 *or*	Computer Information Systems	4
CIM 10 *or*	Introduction to information systems	3
CIM 112	Microsoft Office	3
CIMA 283B	Office Skills - Keyboarding	0.5
CIMA 102 +	Word Processing - Word	3
CIMA 104 +	Spreadsheets - Excel	3
CIMA 108	Business Presentations - Powerpoint	3
CIMN 100 +	Computer Operating Systems - Windows	3
	Restricted Electives	3
TOTAL UNITS FOR THE CERTIFICATE:		**21.5-22.5**
Restricted Electives: (3 units)		
BUS 102	Oral Business Communications	3
BUS 104 *	Business Communication	3
BUS 125	Human Relations in Business	3
CIM 120	Computer Literacy	1.5
CIMA 106	Database - Access	3
CIMA 212	Managing Projects with Microsoft Project	3
CIMA 223A *	Computerized Accounting - Quickbooks--Beginning	1.5
CIMA 223B *	Computerized Accounting - Quickbooks--Advanced	1.5
CIMW 100* +	Web Site Development - HTML	3
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 207	Social Media & Web Fundamentals	1.5

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

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

Advanced Manufacturing

Advanced Manufacturing
Associate of 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, 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 CORE:

Course ID	Title	Units
DR 50 * or	Introduction to Computer-Aided Drafting	3
ARCH 50 *	Introduction to Computer-Aided Drafting	3
DR 152 * or	Advanced Computer-Aided Design	3
ARCH 152 *	Advanced Computer-Aided Design	3
MFG 204 * or	3D Computer Aided Design - Solidworks	3
DR 200 *	3D Parametric Modeling - Solidworks	3
MFG 200 *	Introduction to Rapid Prototyping Technology	3
MFG 207	CNC Computer Numerical Control Programming I	3
MFG 201 *	Advanced CAD Model Making and Tooling	3
MFG 202	Industrial Materials	2
MFG 203	Introduction to Manufacturing Processes	2
DR 202 *	Geometric Dimensioning and Tolerancing	3
MFG 208 *	CNC Computer Numerical Control Programming II	3
MFG 205	Silicone and Urethane Mold Making	3
MFG 206 *	Resin and Foam Casting	3
	Select one course from Restricted Electives	2-3
TOTAL UNITS FOR THE MAJOR:		**36-37**
Restricted Electives		
DR 201 *	Advanced 3D Parametric Modeling - Solidworks	3
DR 51 * or	Computer-Aided Drafting	3
ARCH 51	Computer-Aided Drafting	3
ET 201	Robotics Fundamentals	2

*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.

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.

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 CORE:

Course ID	Title	Units
DR 50 * or	Introduction to Computer-Aided Drafting	3
ARCH 50 *	Introduction to Computer-Aided Drafting	3
DR 152 * or	Advanced Computer-Aided Design	3
ARCH 152 *	Advanced Computer-Aided Design	3
MFG 204 * or	3D Computer Aided Design - Solidworks	3
DR 200 *	3D Parametric Modeling - Solidworks	3
MFG 200 *	Introduction to Rapid Prototyping Technology	3
MFG 207	CNC Computer Numerical Control Programming I	3
MFG 201 *	Advanced CAD Model Making and Tooling	3
MFG 202	Industrial Materials	2
MFG 203	Introduction to Manufacturing Processes	2
DR 202 *	Geometric Dimensioning and Tolerancing	3
MFG 208 *	CNC Computer Numerical Control Programming II	3
MFG 205	Silicone and Urethane Mold Making	3
MFG 206 *	Resin and Foam Casting	3
	Select one course from Restricted Electives	2-3
TOTAL UNITS FOR THE CERTIFICATE:		**36-37**
Restricted Electives		
DR 201 *	Advanced 3D Parametric Modeling - Solidworks	3
DR 51 * or	Computer-Aided Drafting	3
ARCH 51 *	Computer-Aided Drafting	3
ET 201	Robotics Fundamentals	2

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

American Sign Language

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

REQUIRED COURSES:

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 10	Deaf Culture and Its History	3
	TOTAL UNITS FOR THE MAJOR:	19

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.

American Sign Language Interpreting
Certificate of Achievement

The American Sign Language (ASL) Interpreting Certificate 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 needs to communicate with the Deaf community at a basic to native level.
- Show in-depth knowledge about the Deaf community and their culture.
- Demonstrate the skills needed to be able to interpret at a basic to intermediate level depending on setting.

REQUIRED COURSES:

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 10	Deaf Culture and Its History	3
SL 121*	ASL Interpreting I	3
SL 221*	ASL Interpreting Lab I	1

Course ID	Title	Units
SL 122*	ASL Interpreting II	3
SL 222*	ASL Interpreting Lab II	1
	TOTAL UNITS FOR THE CERTIFICATE:	**27**

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

Anthropology

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 for Transfer (AA-T) degree in anthropology by providing the necessary breadth in the field and an introduction to the methods used. Students who complete the AA-T degree in Anthropology receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. 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 breadth of anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines.
- Explain the fundamental processes of human biological evolution.
- Describe modern human biological diversity.
- Articulate an understanding of the cultural construction and historical uses of the concept 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.
- Critically analyze the process of globalization and its effects upon cultures around the world.
- Articulate an anthropological perspective on contemporary issues and concerns, including the politics of inclusion and exclusion both locally and globally.
- Discuss the importance of the scientific method in anthropological research.
- Identify the correct methods and ethical responsibilities involved in conducting archaeological, biological, ethnographic, and/or linguistic fieldwork.

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:

Course ID	Title	Units
ANTH 1 *or*	Biological Anthropology	3
ANTH 1H	Honors Biological Anthropology	3
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
ANTH 9	Introduction to Archaeology	3
Group A: Select one of the following courses (3 units)		
ANTH 3 *	Culture and Language	3
ANTH 13	Magic, Witchcraft, and Religion	3
Group B: Select one to two (3-5 units)		
BIO 11 *	Human Anatomy	4

Course ID	Title	Units
GEOL 1	Introduction to Physical Geology	4
GEOL 20	Introduction to Earth Science	4
GEOL 23	Environmental Geology	4
Group C: Select one (3 units)		
ANTH 4	Native American Cultures	3
ANTH 5	Anthropology of Latin America-Culture, Identity, and Power	3
ANTH 6 *	Global Issues in Anthropological Perspective	3
ANTH 8	World Prehistory	3
ANTH 15	The World of Primates	3
ANTH 16 *	Archaeological Field Methods	1
ANTH 17	The Biological Evolution of Human Nature	3
ANTH 19 *	Forensic Anthropology	3
ANTH 21	Women, Gender, and Culture - Cross-Cultural Perspectives	3
ANTH 22	Medical Anthropology-Culture, Health, and Healing	3
ES 1	Introduction to Ethnic Studies: Making Culture	3
ES 3	Introduction to ChicanX and LatinX Cultures	3
	TOTAL UNITS FOR THE MAJOR:	**18-19**

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

Anthropology
Associate of Arts

Anthropology is a diverse discipline that investigates the biological and cultural life of human beings across time and place. An anthropology degree provides students with an appreciation of other ways of life and 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 of 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 breadth of anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines.
- Explain the fundamental processes of human biological evolution.
- Describe modern human biological diversity.
- Articulate an understanding of the cultural construction and historical uses of the concept 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.
- Critically analyze the process of globalization and its effects upon cultures around the world.
- Articulate an anthropological perspective on contemporary issues and concerns, including the politics of inclusion and exclusion both locally and globally.
- Discuss the importance of the scientific method in anthropological research.
- Identify the correct methods and ethical responsibilities involved in conducting archaeological, biological, ethnographic, and/or linguistic fieldwork.

REQUIRED COURSES:

Course ID	Title	Units
ANTH 1 *or*	Biological Anthropology	3
ANTH 1H	Honors Biological Anthropology	3

Course ID	Title	Units
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
ANTH 3 *	Culture and Language	3
ANTH 9	Introduction to Archaeology	3
	Select from Restricted Electives	6-7
	TOTAL UNITS FOR THE MAJOR:	**18-19**
Restricted Electives: Select 6-7 Units		
ANTH 4	Native American Cultures	3
ANTH 5	Anthropology of Latin America-Culture, Identity, and Power	3
ANTH 6 *	Global Issues in Anthropological Perspective	3
ANTH 8	World Prehistory	3
ANTH 13	Magic, Witchcraft, and Religion	3
ANTH 15	The World of Primates	3
ANTH 16 *	Archaeological Field Methods	1
ANTH 17	The Biological Evolution of Human Nature	3
ANTH 19 *	Forensic Anthropology	3
ANTH 21	Women, Gender, and Culture - Cross-Cultural Perspectives	3
ANTH 22	Medical Anthropology	3
PSYC 44	Statistics for the Behavioral Sciences	3
ES 1	Introduction to Ethnic Studies: Making Culture	3
ES 3	Introduction to Chicana(o) and Latina(o) Cultures	3

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

Suggested coursework not required for the major: BIO 11, 22, 40; GEOG 2; HIST 20/SOC 20; MATH 10; PSYC 16; SOC 1.

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.

Architectural Drafting

Architecture
Associate of Science

The Associate of Science Degree in Architecture is a two to 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 students 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 draftsperson, 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.

REQUIRED CORE:

Course ID	Title	Units
ARCH 10	Introduction to Architecture	2
ARCH 12	History of Architecture	3
ARCH 50 * or	Introduction to Computer-Aided Drafting	3
DR 50 *	Introduction to Computer-Aided Drafting	3
ARCH 51 * or	Computer-Aided Drafting	3
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
ARCH 121 *	Advanced Revit and Building Information Management II	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	Material and Methods of Construction	3
ARCH 231	Leed and Sustainable Architecture	3
	Select from Restricted Electives:	3-6
	TOTAL UNITS FOR THE MAJOR:	**56-59**
Restricted Electives:		
ARCH 14	California Architecture	3
ARCH 132 *	Residential Planning, Principles and Design	3
ARCH 136	Basic Architectural Design II	3
ARCH 152* or	Advanced Computer-Aided Design	3
DR 152 *	Advanced Computer-Aided Design	3
ARCH 161	Blueprint Plans and Specification Reading	4
ARCH 162	Construction Estimating	3
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	Plumbing Codes - Drains, Waste, Vents, Water, and Gas	3
ARCH 213	Mechanical Code - Heating, AC, Refrigeration, and Ductwork	3
ARCH 260	Architecture in Northern California	1
ARCH 261	Orange and San Diego Architecture	1
ARCH 262	Los Angeles Architecture	1
ARCH 270	Field Study - European Architectural History	3
ARCH 271	Field Study - European Sketch, Draw, Photo	3
ARCH 272	Field Study - European Design Studio	4

*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.

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Architecture
Certificate of Achievement

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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 draftsperson, 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.

REQUIRED CORE:

Course ID	Title	Units
ARCH 10	Introduction to Architecture	2
ARCH 12	History of Architecture	3
ARCH 50 * *or*	Introduction to Computer-Aided Drafting	3
DR 50 *	Introduction to Computer-Aided Drafting	3
ARCH 51 * *or*	Computer-Aided Drafting	3
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
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 * *or*	Advanced Computer-Aided Design	3
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

Course ID	Title	Units
ARCH 200	Design in Arizona, Riverside and Palm Springs	1.5
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
ARCH 121 *	Advanced Revit and Building Information Management II	4
ARCH 260	Architecture in Northern California	1
ARCH 261	Orange and San Diego Architecture	1
ARCH 262	Los Angeles Architecture	1
CWE 180 *	Cooperative Work Experience - Architectural Internship	1
DR 200 *	3D Parametric Modeling - Solidworks	3

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

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 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.

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.

Art

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.

Course ID	Title	Units
First Year		
ART 40	2-D Foundations	3
ART 41 *	Three-Dimensional Design	3
ART 50 *	Painting I	3
ART 80	Drawing I	3
	Select from Restricted Electives	3
Second Year		
ARTH 25	Survey of Art History - Ancient Worlds to Gothic	3

Course ID	Title	Units
ARTH 26 *	Survey of Western Art History - Renaissance to Contemporary	3
ART 85 *	Drawing from the Live Model I	3
	Select from Restricted Electives	9
	TOTAL UNITS FOR THE MAJOR:	**33**

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

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.
*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.

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

Course ID	Title	Units
PHOT 25	History of Photography	3
PHOT 50	Digital Photography I	3
PHOT 51 *	Introduction to Photoshop and Digital Imaging	3
PHOT 55 *	Digital Photography II	3
PHOT 156 *	Digital Photography III	3
PHOT 152 * *or*	Intermediate Photoshop and Digital Imaging	3
PHOT 190 *	Special Problems in Photography	3
	Select one course from the Restricted Electives	3
	TOTAL UNITS FOR THE MAJOR:	**21**
RESTRICTED ELECTIVES		
PHOT 154 *	Alternative Digital Processes	3
PHOT 157 *	Studio Lighting	3

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

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

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

Course ID	Title	Units
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, and Ancient North American 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 * or	Drawing from the Live Model I	3
ART 81 *	Drawing II	3
Painting		
ART 50 *	Painting – I	3
ART 51 *	Painting - II	3
ART 52 *	Painting - III	3
Printmaking		

Course ID	Title	Units
ART 60 *	Intaglio (Etching) and Relief I	3
ART 61 *	Intaglio (Etching) and Relief II	3
ART 62 *	Intaglio (Etching) and Relief III	3
Ceramics		
ART 10 *	Ceramics – Handbuilding I	3
ART 11 *	Ceramics – Wheel I	3
Sculpture		
ART 70	Fundamentals of Sculpture	3
ART 71 *	Additive Sculpture	3
ART 175 *	Metal Casting	3
Photography		
PHOT 50	Digital Photography I	3
Color		
ART 42 *	Color Theory and Practice	3
	TOTAL UNITS FOR THE MAJOR	**24**

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

Art History

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
ART 11 *	Ceramics - Wheel I	3
PHOT 50	Digital Photography I	3
ART 70	Fundamentals of Sculpture	3
ART 71 *	Additive Sculpture	3
ART 72 *	Subtractive Sculpture	3
ART 175 *	Metal Casting	3
ART 60 *	Intaglio (Etching) and Relief I	3
ART 61*	Intaglio (Etching) and Relief II	3
ART 62 *	Intaglio (Etching) and Relief III	3
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
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 * *or*	Elementary Spanish	5
SPAN 1H *	Honors Elementary Spanish	5
TOTAL UNITS FOR THE MAJOR:		**18-20**

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

Astronomy

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)

REQUIRED CORE COURSES:

Course ID	Title	Units
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
PHYS 4A *	General Physics	5
MATH 3B *	Analytic Geometry and Calculus	5
PHYS 4B *	General Physics	5
ASTR 20	General Astronomy	3
ASTR 25 *	Observational Astronomy	3
	TOTAL UNITS FOR THE MAJOR:	**26**

*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.

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:

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 101 *	Automotive Electrical Systems	3
AUTO 201 *	Advanced Automotive Electrical	3
AUTO 207 *	Automotive Engineering Fundamentals	3
AUTO 229 *	Diesel Technology	3

Course ID	Title	Units
AUTO 220 *	Alternative Propulsion Systems	3
AUTO 231 *	Hybrid and Electrical Vehicle Technology	3
AUTO 232 *	Diesel Systems Technology	3
	Select from Restricted Electives	3
	TOTAL UNITS FOR THE MAJOR:	**27**

Restricted Electives

Course ID	Title	Units
AUTO 102 *	Automotive Engine Performance-Electronics and Ignition	3
AUTO 103 *	Automotive Engine Performance-Fuel and Emission Systems	3
AUTO 105 *	Automotive Power Train	3
AUTO 106A *	Automotive Suspension and Alignment	3
AUTO 106B *	Automotive Brake Systems	3
AUTO 107 *	Automatic Transmission	3
AUTO 108 *	Automotive Air Conditioning	3
AUTO 202 *	Advanced Engine Performance Diagnosis	3
AUTO 226 *	Automotive Service Consultant	2
AUTO 227 *	Automotive Service Management	3
AUTO 228 *	Advanced Vehicle Performance	1
AUTO 240 *	Automotive Lab	3
CWE 180 †	Co-Op-Ed-Auto	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†CWE 180 should be taken after completing at least 9 units of the 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.

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:

Course ID	Title	Units
AUTO 100	Automotive Fundamentals	3
AUTO 101 *	Automotive Electrical Systems	3
AUTO 201 *	Advanced Automotive Electrical	3
AUTO 207 *	Automotive Engineering Fundamentals	3
AUTO 229 *	Diesel Technology	3
AUTO 220 *	Alternative Propulsion Systems	3

Course ID	Title	Units
AUTO 231 *	Hybrid and Electrical Vehicle Technology	3
AUTO 232 *	Diesel Systems Technology	3
	Select from Restricted Electives	3
	TOTAL UNITS FOR THE CERTIFICATE:	**27**

Restricted Electives

Course ID	Title	Units
AUTO 102 *	Automotive Engine Performance-Electronics and Ignition	3
AUTO 103 *	Automotive Engine Performance-Fuel and Emission Systems	3
AUTO 105 *	Automotive Power Train	3
AUTO 106A *	Automotive Suspension and Alignment	3
AUTO 106B *	Automotive Brake Systems	3
AUTO 107 *	Automatic Transmission	3
AUTO 108 *	Automotive Air Conditioning	3
AUTO 202 *	Advanced Engine Performance Diagnosis	3
AUTO 226 *	Automotive Service Consultant	2
AUTO 227 *	Automotive Service Management	3
AUTO 228 *	Advanced Vehicle Performance	1
AUTO 240 *	Automotive Lab	3
CWE 180 †	Co-Op-Ed-Auto	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†CWE 180 should be taken after completing at least 9 units of the Alternative Fuel Vehicle Specialist Program.

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 one course from Restricted Electives	.5-5
	TOTAL UNITS FOR THE MAJOR:	**27.5-32**

Course ID	Title	Units
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
AUTO 235 *	Basic Automotive Tire Service (ATS) & TPMS Monitoring	2
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 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.

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Automotive Chassis Specialist
Certificate of Achievement

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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 CERTIFICATE:	**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 Consultants	2

Course ID	Title	Units
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
AUTO 240 *	Automotive Lab	3
CWE 180 †	Co-Op-Ed-Auto	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†CWE 180 should be taken after completing at least 9 units of the Automotive Chassis Specialist Certificate program.

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:

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	3
TOTAL UNITS FOR THE MAJOR:		**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
AUTO 240 *	Automotive Lab	3
CWE 180 †	Co-Op-Ed Auto	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†CWE 180 * should be taken after completing at least 9 units of the Automotive Tune-up 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
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 one course from Restricted Electives	1-3
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

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 One Course from Restricted Electives	.5-5
TOTAL UNITS FOR THE MAJOR:		**28.5-33**
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.
†CWE 180 should be taken after completing at least 9 units of the Automotive Engine Service Specialist Associate of Science degree 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.

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:

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
	TOTAL UNITS FOR THE CERTIFICATE:	**28.5-33**
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
AUTO 240 *	Automotive Lab	3
CWE 180 †	Co-op-Ed-Auto	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†CWE 180 should be taken after completing at least 9 units of the Automotive Engine Service Specialist Certificate program.

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:

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 104A *	Automotive Engines	5
AUTO 104B *	Automotive Engines	5
AUTO 105 *	Automotive Power Train	3
AUTO 106A *	Automotive Suspension and Alignment	3
AUTO 106B *	Automotive Brake Systems	3
AUTO 207 *	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	.5-5
TOTAL UNITS FOR THE MAJOR:		**34.5-39**
Restricted Electives		
AUTO 107 *	Automatic Transmission	3
AUTO 108 *	Automotive Air Conditioning	3
AUTO 109 *	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200	Enhanced Area Clean Air Car Course	2
AUTO 201 *	Advanced Automotive Electrical	3
AUTO 202 *	Advanced Engine Performance Diagnosis	3
AUTO 204A *	High Performance Engine Blueprinting - Rotating Assembly	3
AUTO 204B*	High Performance Engine Blueprinting - Cylinder Heads	3
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
AUTO 240 *	Automotive Lab	3
CWE 180 †	Co-Op-Ed Auto	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†CWE 180 * should be taken after completing at least 9 units of the 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.

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:

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 104A *	Automotive Engines	5
AUTO 104B *	Automotive Engines	5
AUTO 105 *	Automotive PowerTrain	3
AUTO 106A *	Automotive Suspension and Alignment	3
AUTO 106B *	Automotive Brake Systems	3
AUTO 207 *	Automotive Engineering Fundamentals	3
	Select from Restricted Electives	.5-5
TOTAL UNITS FOR THE CERTICATE:		**34.5-39**
Restricted Electives		
AUTO 107 *	Automatic Transmission	3
AUTO 108 *	Automotive Air Conditioning	3
AUTO 109 *	California B.A.R. Basic Area Clean Air Car Course	5
AUTO 200	Enhanced Area Clean Air Car Course	2
AUTO 201 *	Advanced Automotive Electrical	3
AUTO 202 *	Advanced Engine Performance Diagnosis	3
AUTO 204A *	High Performance Engine Blueprinting - Rotating Assembly	3
AUTO 204B *	High Performance Engine Blueprinting - Cylinder Heads	3
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
AUTO 240 *	Automotive Lab	3
CWE 180 †	Co-Op-Ed Auto	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†CWE 180 * should be taken after completing at least 9 units of the General Automotive Technician Certificate program.

Biological Sciences

Biology
Associate in Science for Transfer

The curriculum of the Department of Biological Sciences is designed to provide the transfer student the opportunity to achieve a Biology Associate in Science for Transfer degree by providing the necessary breadth of study and an introduction to research methods used in a variety of biology disciplines. The Biology Associate in Science 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, which 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[1]

REQUIRED CORE (8 UNITS):

Course ID	Title	Units
BIO 4A *	Principles of Cellular Biology	4
BIO 4B *	Principles of Organismal Biology	4
List A: (25 units)		
CHEM 1A *	General Chemistry	5
CHEM 1B *	General Chemistry	5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
PHYS 2A * *and*	Introduction to Physics	5
PHYS 2B * *or*	Introduction to Physics	5
PHYS 4A * *and*	General Physics	5
PHYS 4B *	General Physics	5
	TOTAL UNITS FOR THE MAJOR:	**33**

* Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.
[1] 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.)

Biology
Associate of Science

The curriculum in the Biology Associate of Science Degree is designed to provide the transfer student the opportunity to achieve a biology degree with greater flexibility in completing restrictive electives. While a baccalaureate or higher degree is recommended for those considering majors related to this field, earning the Biology Associate of Science 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.

Course ID	Title	Units
REQUIRED CORE (13-15 UNITS):		
Pathway Option 1 - (15 Units)		
CHEM 1A *	General Chemistry	5
BIO 3AH *	Honors General Biology I	5
BIO 3BH*	Honors General Biology II	5
Pathway Option 2 - (15 Units)		
CHEM 1A *	General Chemistry	5
BIO 3AH *	Honors General Biology I	5
BIO 3C *	Biochemistry and Molecular Biology	5
Pathway Option 3 - (13 Units)		
CHEM 1A *	General Chemistry	5
BIO 4A *	Principles of Cellular Biology	4
BIO 4B *	Principles of Organismal Biology	4
	Restrictive Electives	10
TOTAL UNITS FOR THE MAJOR:		**23-25**
Restricted Electives (10 Units)		
BIO 11 *	Human Anatomy	4
BIO 12 *	Human Physiology	4
BIO 15 *	General Microbiology	5
BIO 19	Marine Biology	4
BIO 20	Introduction to Biology	4
BIO 22 *	Human Genetics	3
BIO 28	Plants and Human Affairs	3
BIO 30	Human Biology	3
BIO 31	Biology of Plants	4
BIO 40	Evolution	3
BIO 43	Animal Behavior	3
BIO 45	Biology of Human Disease	3
BIO 112	Pathophysiology	3
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
MS 20	Introduction to Oceanography	4
PHYS 2A * *or*	Introduction to Physics	5
PHYS 4A *	General Physics	5

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

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 and to the Associate Degree – General Education Requirements in this catalog for specific courses which meet general education requirements.

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

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 Administration
Associate in Science for Transfer

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.

REQUIRED COURSES:

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 1B *	Managerial Accounting	4
ECON 4 *or	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
ECON 2 *or	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
BUS 13	Legal Environment and Business Law	3
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		

Course ID	Title	Units
CIM 1	Computer Information Systems	4
BUS 1 *or*	Introduction to Business	3
BUS 104	Business Communication	3
	TOTAL UNITS FOR THE MAJOR:	**27-29**

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

Business Communication Skills
Certificate of Achievement

Completion of the Business Communication Skills low-unit 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 require 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. Provides a foundation for the larger (23-26 units) Business Communications Certificate.

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.
- 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.

REQUIRED COURSES:

Course ID	Title	Units
BUS 103 *or*	Business English	3
ENG 1A * *or*	Principles of Composition	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 102	Oral Business Communications	3
BUS 104 *	Business Communication	3
BUS 196	Workplace Success Skills	1
	Select from Restricted Electives	1-3
	TOTAL UNITS FOR THE CERTIFICATE:	**11-14**
Restricted Electives: Select 1-3 units from the following courses		
BUS 1 * *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 13	Legal Environment and Business Law	3
BUS 16	Personal Law, Street Law	3
BUS 105	Social Media Marketing	3
BUS 125	Human Relations in Business	3
BUS 135	Marketing	3
BUS 160	Entrepreneurship	3
CWE 180	Co-Op-Ed-Business	3
CIM 112	Microsoft Office	3
CIMA 102	Word Processing - Word	3
CIMA 108	Business Presentations - Powerpoint	3
COMM 5	Interpersonal Communication	3

Course ID	Title	Units
COMM 20	Intercultural Communication	3

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

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.

Program Student Learning Outcomes
 Students who complete this program will be able to:
- Create appropriate written business documents, such as letters, memorandums, reports, proposals, and requests for proposals (RFPs), instructions, employment-related documents, as well as email and other online written business communications. 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.
- 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:

Course ID	Title	Units
BUS 103 *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 13	Legal Environment and Business Law	3
BUS 102	Oral Business Communications	3
BUS 104 *	Business Communication	3
BUS 105 *or*	Social Media Marketing	3
BUS 109 *or*	E-Commerce Marketing	3
BUS 135	Marketing	3
BUS 125	Human Relations in Business	3
BUS 196	Workplace Success Skills	1
	Select from Restricted Electives	1-3
TOTAL UNITS FOR THE CERTIFICATE:		**23-26**
Restricted Electives: Select 1-3 units from the following courses		
COMM 5	Interpersonal Communication	3
COMM 20	Intercultural Communication	3
CIM 112	Microsoft Office	3
CIMA 102	Word Processing - Word	3
CIMA 108	Business Presentations - Powerpoint	3
CWE 180 *or*	Co-Op-Ed Business	1
CWE 180 *or*	Co-Op-Ed Business	2
CWE 180	Co-Op-Ed Business	3

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

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:

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 13	Legal Environment and Business Law	3
BUS 102	Oral Business Communications	3
BUS 103 or	Business English	3
ENG 1A *or	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 104 *	Business Communication	3
BUS 120	Business Management	3
Restricted Electives: Specify total 3 units		
BUS 125	Human Relations In Business	3
BUS 223	Human Resources and Employment Law	3
BUS 111	Business Sustainability Strategies, People - Planet - Profit	3
	TOTAL UNITS FOR THE MAJOR:	21-22

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

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

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:

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 13	Legal Environment and Business Law	3
BUS 102	Oral Business Communications	3
BUS 103 *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 104 *	Business Communication	3
BUS 120	Business Management	3
Restricted Electives: Specify total 3 units		
BUS 125	Human Relations in Business	3
BUS 223	Human Resources and Employment Law	3
BUS 111	Business Sustainability Strategies, People - Planet - Profit	3
TOTAL UNITS FOR THE CERTIFICATE:		**21-22**

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

Business Management
Associate of Science

The Business Management Associate Degree program prepares students with the key competencies and concepts related to positions involving leading, planning, organizing, directing, controlling, making decisions. Positions that need these skills include office, recreation, inventory, production, schedule, and other management and management assistant positions across a wide range of industries. The program prepares new employees for such positions and upgrades the skills of employees already holding such positions. The curriculum in the Business Management Associate Degree program is designed to provide students 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 general accounting.
- Assess human communication styles; plan and apply motivational strategies; solve human relations issues.

REQUIRED COURSES:

Course ID	Title	Units
BUS 103 *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
ACCT 215	General Accounting	3
BUS 102	Oral Business Communications	3
BUS 104 *	Business Communication	3
BUS 120	Business Management	3
	Restricted Electives	3
TOTAL UNITS FOR THE MAJOR:		**21-22**
Restricted Electives: Select one 3 unit course		

Course ID	Title	Units
BUS 125	Human Relations in Business	3
CIM 1	Computer Information Systems	4
CIM 10	Introduction to Information Systems	3
CIM 112	Microsoft Office	3

*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.

Entrepreneurship
Associate of Science

The Entrepreneurship Associate of Science degree program is designed for students who wish to emphasize entrepreneurship in their community college business studies. Completion of the Entrepreneurship Associate of Science program 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 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 students make good decisions.

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 CORE: (17-19 UNITS)

Course ID	Title	Units
ACCT 235	Entrepreneurial Accounting	3
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 13 *or*	Legal Environment and Business Law	3
BUS 106	Legal Aspects of Entrepreneurship	2
BUS 103 * *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 104 *	Business Communication	3
BUS 160	Entrepreneurship	3
	Restricted Electives	3-3.5
	Marketing and Communication Specialties:	3-3.5
	TOTAL UNITS FOR THE MAJOR:	**23-25.5**
Restricted Electives (3-3.5 Units)		

Course ID	Title	Units
BUS 105	Social Media Marketing	3
BUS 106	Legal Aspects of Entrepreneurship	2
BUS 120	Business Management	3
BUS 205	Business Math	3
BUS 223	Human Resources and Employment Laws	3
BUS 237	Financing the Entrepreneurial Business	1.5
CWE 180 *or*	Co-Op-Ed-Business	1
CWE 180 *or*	Co-Op-Ed-Business	2
CWE 180	Co-Op-Ed-Business	3
Marketing and Communication Specialties (3 Units): Any of the following courses not already used from above		
BUS 102	Oral Business Communications	3
BUS 105	Social Media Marketing	3
BUS 109	E-Commerce Marketing	3
BUS 125	Human Relations in Business	3
BUS 135	Marketing	3
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3

*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.

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 of 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 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 students make good decisions. 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:

Course ID	Title	Units
ACCT 235	Entrepreneurial Accounting	3
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 13 *or*	Legal Environment and Business Law	3
BUS 106	Legal Aspects of Entrepreneurship	2
BUS 103 * *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 104 *	Business Communication	3
BUS 160	Entrepreneurship	3
TOTAL UNITS FOR THE CERTIFICATE:		**17-19**

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

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

Course ID	Title	Units
ACCT 235	Entrepreneurial Accounting	3
BUS 160	Entrepreneurship	3
BUS 223	Human Resources and Employment Law	3
BUS 237	Financing the Entrepreneurial Business	1.5
Total Units for the Award:		**10.5**

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 BUS13 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.
- Propose effective solutions to common human relations problems in an organization.

REQUIRED COURSES:

Course ID	Title	Units
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 104 *	Business Communication	3
BUS 103 *or*	Business English	3
ENG 1A * *or*	English Composition	4
ENG 1AH *	Honors English Composition	4
BUS 125	Human Relations	3
BUS 196	Workplace Success Skills	1
	Restricted Electives	3
	TOTAL UNITS FOR THE CERTIFICATE:	**16-17**
Restricted Electives: Select 3 units		
BUS 13	Legal Environment & Business Law	3
BUS 102	Oral Business Communications	3
BUS 105	Social Media Marketing	3
BUS 16	Personal Law, Street Law	3
BUS 135	Marketing	3
BUS 160	Entrepreneurship	3
CWE 180	Co-Op-Ed Business	3
CIM 112	Microsoft Office	3
CIMA 102	Word Processing - Word	3
CIMA 104	Spreadsheets - Excel	3
CIMA 108	Business Presentations - Powerpoint	3

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

Global Business
Associate of 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 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.
- Communicate effectively with people from various cultures in various business contexts.

REQUIRED CORE (SPECIFY TOTAL UNITS 18-19):

Course ID	Title	Units
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 13	Legal Environment and Business Law	3
BUS 103 *or*	Business English	3
ENG 1A *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 104 *	Business Communication	3

Course ID	Title	Units
BUS 150	International Business	3
BUS 260	Survey of Exporting and Importing	3
	Restricted Electives	1-3
	TOTAL UNITS FOR THE MAJOR:	**19-22**
Restricted Electives: 1-3 units - any one of the following courses		
BUS 102	Oral Business Communications	3
BUS 105 *or*	Social Media Marketing	3
BUS 109	E-Commerce Marketing	3
BUS 106	Legal Aspects of Entrepreneurship	2
BUS 107	Innovation and New Product Development	3
BUS 120	Business Management	3
BUS 135	Marketing	3
BUS 137	Professional Selling Fundamentals	3
BUS 160	Entrepreneurship	3
COMM 20	Intercultural Communication	3
CWE 180 *or*	Co-Op-Ed Business	1
CWE 180 *or*	Co-Op-Ed Business	2
CWE 180	Co-Op-Ed Business	3

*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.

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.

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 CORE (SPECIFY TOTAL UNITS 18-19):

Course ID	Title	Units
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 13	Legal Environment and Business Law	3
BUS 103 *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4

Course ID	Title	Units
BUS 104 *	Business Communication	3
BUS 150	International Business	3
BUS 260	Survey of Exporting and Importing	3
	TOTAL UNITS FOR THE CERTIFICATE:	**18-19**

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

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

Course ID	Title	Units
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
BUS 223	Human Resources and Employment Law	3
	TOTAL UNITS FOR THE AWARD:	**9**

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:

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 103 *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 13	Legal Environment and Business Law	3
BUS 104 *	Business Communication	3
BUS 135	Marketing	3
BUS 105	Social Media Marketing	3
	Restricted Electives	6-7
	TOTAL UNITS FOR THE MAJOR:	**24-26**
Restricted Electives:		
BUS 102	Oral Business Communications	3
ACCT 1A	Financial Accounting	4
BUS 138 *or*	Advertising	3
CTVR 138	Advertising	3

Course ID	Title	Units
BUS 109	E-Commerce Marketing	3
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 160	Entrepreneurship	3
BUS 107	Innovation and New Product Development	3
BUS 111	Business Sustainability Strategies, People - Planet - Profit	3
CWE 180 *or*	Co-Op-Ed Business	1
CWE 180 *or*	Co-Op-Ed Business	2
CWE 180 *or*	Co-Op-Ed Business	3
CWE 180	Co-Op-Ed Business	4

Associate in Science Degree

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

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:

Course ID	Title	Units
BUS 1	Introduction to Business	3
BUS 103 *or*	Business English	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
BUS 13	Legal Environment and Business Law	3
BUS 104 *	Business Communication	3
BUS 135	Marketing	3
BUS 105	Social Media Marketing	3
	Restricted Electives	6-7
TOTAL UNITS FOR THE CERTIFICATE:		**24-26**
Restricted Electives:		
BUS 102	Oral Business Communications	3
ACCT 1A	Financial Accounting	4
BUS 138 *or*	Advertising	3
CTVR 138	Advertising	3
BUS 109	E-Commerce Marketing	3

Course ID	Title	Units
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 160	Entrepreneurship	3
BUS 107	Innovation and New Product Development	3
BUS 111	Business Sustainability Strategies, People - Planet - Profit	3
CWE 180 or	Co-Op-Ed-Business	1
CWE 180 or	Co-Op-Ed-Business	2
CWE 180 or	Co-Op-Ed-Business	3
CWE 180	Co-Op-Ed-Business	4

*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.

REQUIRE COURSES

Course ID	Title	Units
BUS 105	Social Media Marketing	3
BUS 135	Marketing	3
BUS 196	Workplace Success Skills	1
	Restricted Electives	5-6
TOTAL UNITS FOR THE CERTIFICATE		**12-13**
RESTRICTED ELECTIVES select two (2) from the following:		
BUS 1 or	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 13	Legal Environment and Business Law	3
BUS 109	E-Commerce Marketing	3
BUS 136	Principles of Retailing	3
BUS 137	Professional Selling Fundamentals	3
BUS 138	Advertising	3
CWE 180 or	Co-Op-Business	2
CWE 180	Co-Op-Business	3
CIM 112	Microsoft Office	3
CIMA 102	Word Processing – Word	3
CIMA 108	Business Presentations - Powerpoint	3

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

Course ID	Title	Units
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
CIMA 212	Managing Projects with Microsoft Project	3
	TOTAL UNITS FOR THE AWARD:	**9**

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

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 214	Business Analysis and Calculations	3
BUS 102	Oral Business Communications	3
BUS 104 *	Business Communication	3
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
BUS 135	Marketing	3
BUS 136	Principles of Retailing	3
BUS 223	Human Resources and Employment Law	3
CIM 1 *or*	Computer Information Systems	4
CIM 10 *or*	Introduction to Information Systems	3
CIM 112	Microsoft Office	3
	TOTAL UNITS FOR THE MAJOR:	**31-32**

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

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

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.

Course ID	Title	Units
ACCT 1A	Financial Accounting	4
ACCT 214	Business Analysis and Calculations	3
BUS 102	Oral Business Communications	3
BUS 104 *	Business Communication	3
BUS 120	Business Management	3
BUS 125	Human Relations in Business	3
BUS 135	Marketing	3
BUS 136	Principles of Retailing	3
BUS 223	Human Resources and Employment Law	3
CIM 1 *or*	Computer Information Systems	4
CIM 10 *or*	Introduction to Information Systems	3
CIM 112	Microsoft Office	3
TOTAL UNITS FOR THE CERTIFICATE		**31-32**

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

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.

REQUIRED COURSES

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
BUS 136	Principles of Retailing	3
	Restricted Electives	3
TOTAL UNITS FOR THE MAJOR		**18**
RESTRICTED ELECTIVES		
ACCT 214 *or*	Business Analysis and Calculations	3
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.

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.

REQUIRED COURSES

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 *or*	Business Analysis and Calculations	3
CWE 180 *or*	Cooperative Work Experience - Business	3
BUS 102	Oral Business Communications	3

Chemistry

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.

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

*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.

Child Development and Education

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

Certificates, degrees, and courses in the CDE Department are aligned with professional early childhood certification requirements, prepare students for transfer to four-year institutions, and provide post certification professional development. The majors offer preparation for careers in state funded children's programs, private preschools, infant and toddler care settings, and elementary school teaching. Programs in the CDE department can also lead to careers working directly or indirectly with children in related fields, such as psychology, social services, educational material development, children's center design, public advocacy, special education, and pediatric health.

Associate Teacher Level I
Certificate of Achievement

Introductory developmental and learning theory as well as appropriate strategies for the care and education of young children will be studied and applied. This certificate is designed to meet the coursework requirements for the Associate Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CTC) and prepares students for entry level positions in a variety of early childhood care and education settings. Additional work with children (50 days of 3+ hours per day) is required to obtain the Associate 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:
- Identify 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 introductory skills and knowledge related to the unique need of children ages 0-8 years.
- Describe developmentally appropriate teaching practices for children ages 0-8.

REQUIRED COURSES:

Course ID	Title	Units
CDE 7 *	Child Growth and Development	3
CDE 15 *	Child, Family, and Community	3
CDE 101 *	Principles and Practices of Teaching Young Children	3
CDE 110 *	Introduction to Curriculum	3
	TOTAL UNITS FOR THE CERTIFICATE:	12

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

Child and Adolescent Development
Associate in Arts for Transfer

The Associate in Arts in Child and Adolescent Development for Transfer (AAT) prepares students to demonstrate a basic understanding of child development theory and concepts, as well as preparation in lower-division coursework designed to enhance further developmental study. Studies include classical and contemporary research spanning conception through adolescence to promote the positive developmental outcomes essential to fostering healthy growth and learning of children and families in a diverse society. The major incorporates information from a variety of disciplines to provide a broad academic and professional foundation for working with children and families.

The major will provide students with the strong preparation necessary for pursuing studies at the university level in various careers such as children's services, mental health, family support, youth programs, developmental research, teaching, early childhood education, public policy, social work, school psychology, child life and similar fields related to children and their families from infancy through adolescence.   The coursework is designed to meet the needs of people planning to transfer to CSU into programs in Child Development, Human Development, Child and Adolescent Development, Family and Consumer Sciences, and Liberal Studies (Child Development and Elementary Education Tracks).

Program Student Learning Outcomes
Students who complete this program will be able to:
- Synthesize research-based theories including principles and practices of child and adolescent development and learning.
- Utilize critical thinking skills to analyze, evaluate, and make decisions concerning complex contemporary issues and the interactions among individuals and across societies.
- Use scientific methodologies to study human development from infancy through adolescence.
- Demonstrate knowledge of development in all learning domains from conception through adolescence, including knowledge about typical and atypical development.

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
REQUIRED CORE (9 UNITS):		
CDE 7 *	Child Growth and Development	3
PSYC 1 *or*	Introduction to Psychology	3
PSYC 1H	Honors Introduction to Psychology	3
PSYC 44 * *or*	Statistics for the Behavioral Sciences	3
MATH 10 *	Introduction to Statistics	3
List A: (9 units)		
CDE 15 * *and*	Child, Family, and Community	3
Select two (6 units)		
CDE 18 *	Exceptional Children	3
CDE 90 *	Into to Elementary Education	3
CDE 101 *	Principles and Practices of Teaching Young Children	3
CDE 110 *	Introduction to Curriculum	3
CDE 111 *	Child Guidance and Communication	3
CDE 117 *	Teaching in a Diverse Society	3
CDE 120 *	Observation and Assessment	3
CDE 123 *	Infant and Toddler Development	3
CDE 124	Preschool and Early Primary Child Development	3
CDE 126	School Age and Adolescent Development	3
HS 120 *	Human Development in the Social Environment	3
SOC 10	Introduction to Marriage and the Family	3
	TOTAL UNITS FOR THE MAJOR:	**18**

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

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Early Childhood Education
Associate in Science for Transfer

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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, and research based teaching strategies to develop curriculum for the unique educational needs of young children individually and in group care settings.
- Demonstrate developmentally appropriate observation, assessment, and documentation skills that can be applied to interpretations of growth and development, planning, and identification of individual needs.
- Demonstrate professional skills including ethical practice, reflective practice, written and verbal communication, collaboration, advocacy, and identification of personal qualifications in relationship to state and national requirements for teachers of young children.

Course ID	Title	Units
CDE 7 * *or*	Child Growth and Development	3
CDE 7H *	Honors Child Growth and Development	3
CDE 15 *	Child, Family, and Community	3
CDE 101 *	Principles and Practices of Teaching Young Children	3
CDE 110 *	Introduction to Curriculum	3
CDE 120 *	Observation and Assessment	3
CDE 121 *	Practicum-The Student Teaching Experience	4
CDE 112 *	Health, Safety, and Nutrition	3
CDE 117 *	Teaching in a Diverse Society	3
	TOTAL UNITS FOR THE MAJOR:	**25**

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

Early Childhood Teacher
Certificate of Achievement

Foundational theories of children's development and learning 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 variety of early childhood settings. It also meets the education requirements of the Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CTC). Additional working experience with children is required to obtain the 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, 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 of personal qualifications in relationship to state and national requirements for teachers of young children.

CORE COURSES:

Course ID	Title	Units
CDE 101 *	Principles and Practices of Teaching Young Children	3
CDE 15 *	Child, Family, and Community	3
CDE 7 *	Child Growth and Development	3
CDE 110 *	Introduction to Curriculum	3
CDE 111 *	Child Guidance and Communication	3
CDE 112 *	Health, Safety, and Nutrition	3
CDE 117 *	Teaching in a Diverse Society	3
CDE 120 *	Observation and Assessment	3
CDE 121 *	Practicum-The Student Teaching Experience	5
	Select from Required Breadth	16-19

Course ID	Title	Units
	TOTAL UNITS FOR THE CERTIFICATE:	**44-47**
Required Breadth (16-19 Units)		
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.**		
Area 1		
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
Area 2		
MATH 10 * *or*	Introduction to Statistics	3
MATH 14 * *or*	Mathematics for Elementary School Teachers	5
PSYC 44 * *or*	Statistics for the Behavioral Sciences	3
MATH 103 * *or*	Mathematical Ideas	3
GEOG 1 *or*	Physical Geography	3
GEOG 1H *or*	Honors Physical Geography	3
PHYS 30 *or*	Physics and Chemistry for Elementary Educators	4
HORT 20	Introduction to Horticultural Science	4
Area 3		
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H *or*	2H Honors Cultural Anthropology	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H *or*	Honors Cultural Geography	3
SOC 30 *or*	Social Psychology	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
Area 4		
ENG 142 * *or*	Children's Literature	3
ARTH 20 *or*	Art Appreciation	3
MUS 1 *or*	The Basics of Music	3
MUS 20 *or*	Music Appreciation	3
HORT 115 *or*	History of Landscape Design	3
ID 110	Fundamentals of Interior Design	3

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

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Elementary Teacher Education
Associate in Arts for Transfer

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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. (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:

Course ID	Title	Units
CDE 90 *	Intro to Elementary Education	3
CDE 7 *	Child Growth and Development	3
BIO 20	Introduction to Biology	4
PHYS 30 *	Physics and Chemistry for Elementary Educators	4
GEOL 20	Introduction to Earth Science	4
MATH 14 *	Mathematics for Elementary School Teachers	5
COMM 1 * *or*	Communication Fundamentals	3
COMM 1H *	Honors Communications Fundamentals	3
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
ENG 25 * *or*	Introduction to Literature	3
ENG 25H *	Honors Introduction to Literature	3
GEOG 3	World Regional Geography	3
HIST 4	World History to 1500	3
HIST 16	History of the United States to 1876	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
Group A: Select one		
ENG 1B * *or*	Principles of Composition II	3
ENG 1BH *	Honors Principles of Composition II	3
ENG 70 *	Reasoning and College Reading	3
Group B: Select one		
ARTH 20	Art Appreciation	3
DANC 64	History of Dance	3
MUS 20	Music Appreciation	3
TA 20	Theatre Appreciation	3
	TOTAL UNITS FOR THE MAJOR:	**55**

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

Infant Toddler Teacher
Certificate of Achievement

The 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. It also meets the education requirements of the Teacher level of the Child Development Permit issued by the California Commission on Teacher Credentialing (CTC). Additional working experience with children is required to obtain the 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 care and education of children ages 0-8 years.
- Demonstrate a range of skills and knowledge related to the unique needs of children ages 0-36 months.
- Apply developmental theory, knowledge of child development, developmentally, culturally, and linguistically appropriate practice, 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
CDE 101 *	Principles and Practices of Teaching Young Children	3
CDE 15 *	Child, Family, and Community	3
CDE 7 *	Child Growth and Development	3
CDE 110 *	Introduction to Curriculum	3
CDE 111 *	Child Guidance and Communication	3
CDE 112 *	Health, Safety, and Nutrition	3
CDE 117 *	Teaching in a Diverse Society	3
CDE 120 *	Observation and Assessment	3
CDE 121 *	Practicum-The Student Teaching Experience	4
CDE 123 *	Infant and Toddler Development	3
CDE 133 *	Care and Education for Infants and Toddlers	3
	Select from Required Breadth	16-19
	TOTAL UNITS FOR THE CERTIFICATE:	**50-53**
*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 * or	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
Area 2		
MATH 10 * or	Introduction to Statistics	3
MATH 14 * or	Mathematics for Elementary School Teachers	5
MATH 103 * or	Mathematical Ideas	3
PSYC 44 * or	Statistics for the Behavioral Sciences	3
GEOL 1 or	Introduction to Physical Geology	4
PHYS 30 or	Physics and Chemistry for Elementary Educators	4
HORT 20	Introduction to Horticultural Science	4
Area 3		
ANTH 2 or	Cultural Anthropology	3
ANTH 2H or	Honors Cultural Anthropology	3
GEOG 2 or	Cultural Geography	3
GEOG 2H or	Honors Cultural Geography	3

Course ID	Title	Units
SOC 30 *or*	Social Psychology	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
Area 4		
ENG 142 * *or*	Children's Literature	3
ARTH 20 *or*	Art Appreciation	3
MUS 1 *or*	The Basics of Music	3
MUS 20 *or*	Music Appreciation	3
HORT 115 *or*	History of Landscape Design	3
ID 110	Fundamentals of Interior Design	3

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

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:

Course ID	Title	Units
CDE 101 *	Principles and Practices of Teaching Young Children	3
CDE 15 *	Child, Family, and Community	3
CDE 7 * *or*	Child Growth and Development	3
CDE 7H *	Honors Child Growth and Development	3
CDE 110 *	Introduction to Curriculum	3
CDE 111 *	Child Guidance and Communication	3
CDE 112 *	Health, Safety, and Nutrition	3
CDE 117 *	Teaching in a Diverse Society	3
CDE 120 *	Observation and Assessment	3
CDE 121 *	Practicum-the Student Teaching Experience	5
CDE 127 *	Adult Supervision and Mentoring	3
	Select from Required Breadth	16-19

Course ID	Title	Units
	Required Specialization	6
	TOTAL UNITS FOR THE CERTIFICATE:	**54-57**

Required Breadth

Students must complete area 1, select one course form 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 * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4

Area 2		
MATH 10 * *or*	Introduction to Statistics	3
MATH 14 * *or*	Mathematics for Elementary School Teachers	5
MATH 103 * *or*	Mathematical Ideas	3
PSYC 44 * *or*	Statistics for the Behavioral Sciences	3
ANTH 1 *or*	Biological Anthropology	3
ANTH 1H *or*	Honors Biological Anthropology	3
ENV 18 *or*	Introduction to Ecology	4
GEOG 1 *or*	Physical Geography	3
GEOG 1H *or*	Honors Physical Geography	3
GEOL 1 *or*	Introduction to Physical Geology	4
GEOL 20 *or*	Introduction to Earth Science	4
HORT 20	Introduction to Horticultural Science	4

Area 3		
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H *or*	Honors Cultural Anthropology	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H *or*	Honors Cultural Geography	3
SOC 10 *or*	Introduction to Marriage and the Family	3
SOC 20 *or*	Ethnic Cultures of the United States	3
SOC 30 *or*	Social Psychology	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3

Area 4		
ENG 142 * *or*	Children's Literature	3
ARTH 20 *or*	Art Appreciation	3
MUS 1 *or*	The Basics of Music	3
MUS 20 *or*	Music Appreciation	3
DANC 64 *or*	History of Dance	3
HORT 115 *or*	History of Landscape Design	3
ID 110	Fundamentals of Interior Design	3

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
CDE 133 *	Care and Education for Infants and Toddlers	3

Special Needs		
CDE 135 *	Introduction to Children with Special Needs	3
CDE 140 *	Curriculum and Strategies for Children with Special Needs	3

Course ID	Title	Units
Curriculum		
CDE 113 *	Math and Science Curriculum Early Childhood Education	3
CDE 114 *	Creative Art Curriculum for Young Children	3
CDE 115 *	Literacy Curriculum in Early Childhood Education	3

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

Professional Development for Preschool/TK Educator
Certificate of Achievement

This certificate provides professional development for teachers of children 3-6 in a variety of settings including state preschool, Head Start, and transitional kindergarten. It meets the needs of transitional kindergarten teachers who are required to have 24 units of child development or early childhood education in addition to their bachelor's degree and multiple subjects teaching credential (ED Code 48000). In-depth study of the learning and developmental needs of children ages 3-6, the California Preschool Frameworks and Foundations, exploration of various classroom management and observation and assessment techniques are addressed. The content, resources, and methodology are relevant as professional development for any California Child Development Permit holder, preschool, transitional kindergarten, or kindergarten teacher.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Plan individualized, and differentiated instruction based on reflective practice, observations and developmental needs of children ages 3-6.
- Apply their understanding of the California Preschool Foundations and Frameworks to plan integrated curriculum.
- Evaluate culturally and linguistically responsive practices that include the families of the children in the classroom.

REQUIRED COURSES

Course ID	Title	Units
CDE 124 *	Preschool and Early Primary Child Development	3
CDE 119	Challenging Behaviors	3
CDE 120 *	Observation and Assessment	3
CDE 251	CA Preschool Foundations & Frameworks- Language, Literacy	1
CDE 253	CA Preschool Foundations & Frameworks - Math	1
CDE 250	CA Preschool Foundations & Frameworks - Social and Emotional	1
CDE 252	CA Preschool Foundations & Frameworks - English Language Dev	1
CDE 256	CA Preschool Foundations & Frameworks - Physical Development	1
CDE 257	A Preschool Foundations & Frameworks - Health	1
CDE 254	CA Preschool Foundations & Frameworks - Visual Arts	1
CDE 255	CA Preschool Foundations & Frameworks - Performing Arts	1
CDE 259	CA Preschool Foundations and Frameworks - Science	1
CDE 258	CA Preschool Foundation & Frameworks - History-Soc Science	1
CDE 110 * or	Introduction to Curriculum	3
CDE 121 * or	Practicum-The Student Teaching Experience	4
CWE 180 or	CO-OP-ED Child Development and Education	1
CWE 180	CO-OP-ED Child Development and Education	2
	Restricted Electives	3
TOTAL UNITS FOR THE CERTIFICATE		**23-26**
RESTRICTED ELECTIVES - Choose one (3 Units)		
CDE 15 *	Child, Family, and Community	3
CDE 101	Principles and Practices of Teaching Young Children	3
CDE 31 *	Educational Psychology	3
CDE 117	Teaching in a Diverse Society	3
CDE 140	Curriculum and Strategies for Children With Special Needs	3

*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

Course ID	Title	Units
CDE 101 *	Principles and Practices of Teaching Young Children	3
CDE 15 *	Child, Family, and Community	3
CDE 7 *	Child Growth and Development	3
CDE 110 *	Introduction to Curriculum	3
CDE 111 *	Child Guidance and Communication	3
CDE 112 *	Health, Safety, and Nutrition	3
CDE 117 *	Teaching in a Diverse Society	3
CDE 120 *	Observation and Assessment	3
CDE 121 *	Practicum-The Student Teaching Experience	5
CDE 127 *	Adult Supervision and Mentoring	3
CDE 128 *	Administration I - Programs in Early Childhood Education	3
CDE 129 *	Administration II-Personnel & Leadership Early Childhood Ed	3
TOTAL UNITS FOR THE CERTIFICATE		**53-56**
General Education (16-19 units):		
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.**		
Area 1		
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
Area 2		
MATH 10 * *or*	Introduction to Statistics	3
MATH 14 * *or*	Mathematics for Elementary School Teachers	5

Course ID	Title	Units
PSYC 44 * *or*	Statistics for the Behavioral Sciences	3
MATH 103 * *or*	Mathematical Ideas	3
GEOL 1 *or*	Introduction to Physical Geology	4
PHYS 30 *or*	Physics and Chemistry for Elementary Educators	4
HORT 20	Introduction to Horticultural Science	4
Area 3		
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H *or*	Honors Cultural Anthropology	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H *or*	Honors Cultural Geography	3
SOC 30 *or*	Social Psychology	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
Area 4		
ENG 142 * *or*	Children's Literature	3
ARTH 20 *or*	Art Appreciation	3
MUS 1 *or*	The Basics of Music	3
MUS 20 *or*	Music Appreciation	3
HORT 115 *or*	History of Landscape Design	3
ID 110	Fundamentals of Interior Design	3

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

Cinema-Television-Radio

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. Topics focus on specialized technical skills, including film/TV producing, directing, cinematography, video editing, production design, radio announcing and acting, 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.
- Produce a demo reel which can showcase their skills and knowledge and help them find employment.
- Demonstrate readiness for employment in the industry.
- Describe the technical, cultural and economic history and trends of radio, television or film.

REQUIRED COURSES:

Course ID	Title	Units
CTVR 40 *	Television and Film Scriptwriting I	3
CTVR 101	Video Production Basics	3
	Completion of one of the following specialty areas	15
	TOTAL UNITS FOR THE MAJOR:	**21**
	Cinema Specialty	
REQUIRED COURSES:		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3

Course ID	Title	Units
Restricted Electives: (9 units)		
CTVR 42 *	Television and Film Directing	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 233 *	Film Production III	3
CTVR 251 *	Non-Linear Editing II	3
CTVR 253 *	Digital Special Effects	3
CTVR 262	Production Management	3
CTVR 264 *	Cinematography	2
CTVR 280 *	Cinema-Television Radio Employment Skills	3
CTVR 290	Acting for the Camera I	3
CTVR 291	Acting for the Camera II - Creating a Character	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
Television Specialty		
REQUIRED COURSES:		
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
CTVR 42 *	Television and Film Directing	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 129 *	Documentary Production	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 191	Voice-Over and Announcing	3
CTVR 251 *	Non-Linear Editing II	3
CTVR 253 *	Digital Special Effects	3
CTVR 262	Production Management	3
CTVR 264 *	Cinematography	2
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
Radio Specialty		
REQUIRED COURSES:		
CTVR 110	Audio Production	3
CTVR 113 *	Radio Broadcasting	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3

Course ID	Title	Units
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 114 *	Radio Station Activities	2
CTVR 115 *	Advanced Radio Performance and Studio Operations	2
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 191	Voice-Over and Announcing	3
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CTVR 290	Acting for the Camera I	3
CTVR 291	Acting for the Camera II - Creating a Character	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
Post Production Specialty		
REQUIRED COURSES:		
CTVR 151	Non-Linear Editing I	3
CTVR 251 *	Non-Linear Editing II	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
CTVR 42 *	Television and Film Directing	3
CTVR 110	Audio Production	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 253 *	Digital Special Effects	3
CTVR 262	Production Management	3
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*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
CTVR 291	Acting for the Camera II - Creating a Character	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
CTVR 42 *	Television and Film Directing	3
CTVR 104	Cold Reading and Interview Techniques	3
CTVR 110	Audio Production	3
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 191	Voice-Over and Announcing	3

Course ID	Title	Units
CTVR 262	Production Management	3
CTVR 264 *	Cinematography	2
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
TA 190	Acting for Television and Film	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*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
CTVR 3	The History and Appreciation of American Cinema	3
Restricted Electives: (9 units)		
CTVR 4	Cinematic Storytelling	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3
CTVR 100	Introduction to Cinema, Television, and Radio	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
ENG 52 *	The Film as Literature	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.

Cinema-Television-Radio
Certificate of Achievement

The Cinema-Television-Radio Certificate of Achievement 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, including film/TV producing, directing, cinematography, video editing, production design, radio announcing and acting, 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
Students who complete this program will be able to:
- Demonstrate readiness for employment in the media production industry.
- Apply skills and knowledge required for employment in the media production industry.
- Produce a demo reel showcasing media industry skills.

REQUIRED COURSES:

Course ID	Title	Units
CTVR 40	Television and Film Scriptwriting I	3
CTVR 101	Video Production Basics	3
	Completion of one of the following specialty areas	15

Course ID	Title	Units
	TOTAL UNITS FOR THE CERTIFICATE:	**21**
Cinema Specialty		
REQUIRED COURSES:		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
Restricted Electives: (9 units)		
CTVR 42 *	Television and Film Directing	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 233 *	Film Production III	3
CTVR 251 *	Non-Linear Editing II	3
CTVR 253 *	Digital Special Effects	3
CTVR 262	Production Management	3
CTVR 264*	Cinematography	2
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CTVR 290	Acting for the Camera I	3
CTVR 291	Acting for the Camera II - Creating a Character	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
Television Specialty		
REQUIRED COURSES:		
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
CTVR 42 *	Television and Film Directing	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 129 *	Documentary Production	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 191	Voice-Over and Announcing	3
CTVR 251 *	Non-Linear Editing II	3
CTVR 253 *	Digital Special Effects	3
CTVR 262	Production Management	3
CTVR 264 *	Cinematography	2
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
Radio Specialty		
REQUIRED COURSES:		

Course ID	Title	Units
CTVR 110	Audio Production	3
CTVR 113 *	Radio Broadcasting	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 114 *	Radio Station Activities	2
CTVR 115 *	Advanced Radio Performance and Studio Operations	2
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 191	Voice-Over and Announcing	3
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CTVR 290	Acting for the Camera I	3
CTVR 291	Acting for the Camera II - Creating a Character	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
Post Production Specialty		
REQUIRED COURSES:		
CTVR 151	Non-Linear Editing I	3
CTVR 251 *	Non-Linear Editing II	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
CTVR 42 *	Television and Film Directing	3
CTVR 110	Audio Production	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 253 *	Digital Special Effects	3
CTVR 262	Production Management	3
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*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
CTVR 291	Acting for the Camera II - Creating a Character	3
Restricted Electives: (9 units)		
CTVR 31 *	Film Production I	3
CTVR 32 *	Film Production II	3
CTVR 42 *	Television and Film Directing	3
CTVR 104	Cold Reading and Interview Techniques	3
CTVR 110	Audio Production	3

Course ID	Title	Units
CTVR 124 *	Television Production I	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 191	Voice-Over and Announcing	3
CTVR 262	Production Management	3
CTVR 264 *	Cinematography	2
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
TA 190	Acting for Television and Film	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
*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
CTVR 3	The History and Appreciation of American Cinema	3
Restricted Electives: (9 units)		
CTVR 4	Cinematic Storytelling	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3
CTVR 100	Introduction to Cinema, Television, and Radio	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 280 *	Cinema-Television-Radio Employment Skills	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	2
ENG 52 *	The Film as Literature	3

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

Cinema-Television-Radio Career Skills
Certificate of Achievement

The Cinema-Television-Radio Career Skills Certificate of Achievement 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 in career skills, including film/TV producing, directing, cinematography, video editing, production design, radio announcing and acting, 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.
- Demonstrate upgraded skills and knowledge required for employment in their selected specialty.
- Produce a demo reel showcasing media industry skills.

REQUIRED COURSES:

Course ID	Title	Units
CTVR 101	Video Production Basics	3
	Completion of one Specialty area	9-10
	TOTAL UNITS FOR THE CERTIFICATE:	**12-13**
	Cinema Specialty	
Required Course:		
CTVR 31 *	Film Production I	3
Restricted Electives: (6-7 units)		
CTVR 32 *	Film Production II	3
CTVR 40	Television and Film Scriptwriting I	3
CTVR 42 *	Television and Film Directing	3
CTVR 151	Non-Linear Editing I	3
CTVR 233 *	Film Production III	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
	Television Specialty	
Required Course:		
CTVR 124 *	Television Production I	3
Restricted Electives: (6-7 units)		
CTVR 40	Television and Film Scriptwriting I	3
CTVR 42 *	Television and Film Directing	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 151	Non-Linear Editing I	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
	Radio Specialty	
Required Course:		
CTVR 110	Audio Production	3
Restricted Electives: (6-7 units)		
CTVR 40	Television and Film Scriptwriting I	3
CTVR 113 *	Radio Broadcasting	3
CTVR 114 *	Radio Station Activities	2
CTVR 115 *	Advanced Radio Performance and Studio Operations	2
CTVR 191	Voice-Over and Announcing	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
	Post Production Specialty	
Required Course:		
CTVR 151	Non Linear Editing I	3
Restricted Electives: (6-7 units)		
CTVR 40	Television and Film Scriptwriting I	3
CTVR 111 *	Audio and Sound for Television and Film	3
CTVR 251 *	Non-Linear Editing II	3
CTVR 253 *	Digital Special Effects	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		

Course ID	Title	Units
Screen Acting and Voice Performance Specialty		
Required Course:		
CTVR 290	Acting for the Camera I	3
Restricted Electives: (6-7 units)		
CTVR 40	Television and Film Scriptwriting I	3
CTVR 42 *	Television and Film Directing	3
CTVR 104	Cold Reading and Interview Techniques	3
CTVR 191	Voice-Over and Announcing	3
TA 190	Acting for Television and Film	3
CTVR 291	Acting for the Camera II - Creating a Character	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1
*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
Restricted Electives: (6-7 units)		
CTVR 2	History and Appreciation of Television Broadcasting	3
CTVR 4	Cinematic Storytelling	3
CTVR 5	History and Appreciation of International Cinema	3
CTVR 7	Cross Cultural Cinema	3
CTVR 9	Women in Cinema and Television	3
CTVR 100	Introduction to Cinema, Television, and Radio	3
CWE 180	Cooperative Work Experience-Cinema, TV, Radio	1

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

Film, Television, and Electronic Media
Associate in Science for Transfer

The Associate in Science in Film, Television, and Electronic Media for Transfer Degree offered by the Cinema-Television-Radio Department provides students with the knowledge, skills, and hands-on experience needed for transfer preparation. The program introduces students to various types of media production including film, television, audio, and video editing as well as media studies. The coursework lays the foundation for students who intend to transfer into CSU majors, such as Cinema and Television Arts, Film and Electronic Arts, or Film and Media Studies. The potential careers students may enter upon completion of the program include film/TV producing, directing, cinematography, video editing, sound design, visual effects, production design, and radio announcing.

Students who complete the AS-T Degree program will receive priority admission to the California State University system, though admission to a specific campus is not guaranteed.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Apply skills and knowledge required to be successful in media production.
- Produce a demo reel which can showcase their skills and knowledge.
- Describe the technical, cultural and economic history and trends of radio, television or film.
- Demonstrate readiness to further their education and transfer to a four-year institution.

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: Select two (6 units)

Course ID	Title	Units
CTVR 1 *or*	Mass Media and Society	3
JRN 1	Mass Media and Society	3
CTVR 4	Cinematic Storytelling	3
CTVR 40	Television and Film Scriptwriting I	3
List A: Select one from each area (6 units)		
Area 1: Audio		
CTVR 110	Audio Production	3
CTVR 111 *	Audio and Sound Design for Television and Film	3
CTVR 113 *	Radio Broadcasting	3
Area 2: Video or Film Production		
CTVR 31 *	Film Production I	3
CTVR 124 *	Television Production I	3
CTVR 101	Video Production Basics	3
List B: Select one or any course not already used above (3 units)		
CTVR 2	History and Appreciation of Television Broadcasting	3
CTVR 3	The History and Appreciation of American Cinema	3
CTVR 100	Introduction to Cinema, Television, and Radio	3
List C: Select one or any course not already used above (3 units)		
CTVR 32 *	Film Production II	3
CTVR 42 *	Television and Film Directing	3
CTVR 104	Cold Reading and Interview Techniques	3
CTVR 125 *	Television Production II	3
CTVR 129 *	Documentary Production	3
CTVR 140 *	Television and Film Scriptwriting II	3
CTVR 151	Non-Linear Editing I	3
CTVR 191	Voice-Over and Announcing	3
	TOTAL UNITS FOR THE MAJOR:	**18**

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

Communication Studies

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.

REQUIRED CORE:

Course ID	Title	Units
COMM 1 * *or*	Communication Fundamentals	3
COMM 1H *	Honors Communication Fundamentals	3
List A: Complete the following courses (6 units)		
COMM 3	Argumentation and Debate	3
COMM 5	Interpersonal Communication	3
List B: Select two of the following courses (6 units)		
COMM 106	Forensics Activity	3
COMM 20	Intercultural Communication	3
CTVR 1 *or*	Mass Media and Society	3
JRN 1	Mass Media and Society	3
COMM 30	Introduction to Oral Interpretation	3
COMM 2 *	Persuasion	3
CTVR 124 *	Television Production I	3
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
List C: Select one of the following courses or any course from List B not already used (3 units)		
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
PSYC 1 *or*	Introduction to Psychology	3
PSYC 1H	Honors Introduction to Psychology	3
SOC 1 *or*	Introduction to Sociology	3
SOC 1H	Honors Introduction to Sociology	3
ENG 25 * *or*	Introduction to Literature	3
ENG 25H *	Honors Introduction to Literature	3
ENG 1B * *or*	Principles of Composition II	3
ENG 1BH *	Honors Principles of Composition II	3
ENG 70 *	Critical Thinking, Reading, and Writing	3
JRN 2 *	News Writing	3
COMM 8	Gender Communication	3
COMM 32 *	Interpreters' Theatre	3
TOTAL UNITS FOR THE MAJOR:		**18**

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

Computer and Information Management

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

Applications Developer
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 emphasizes modern-day programming emphasizing both the most popular language Java and the fastest growing language Python. Also, the universally excepted SQL database language is covered. Students also have the option to pursue concentrations in Microsoft Office applications, especially Excel, along with video game design, web development, and specific Android/Apple mobile development.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Identify and perform all stages of the Systems Development Lifecycle
- Demonstrate a working knowledge of database communication language SQL
- Successfully code, compile, execute, and debug programs in various programming languages

REQUIRED COURSES:

Course ID	Title	Units
CIMP 7A	Business Programming - Java--Beginning	3
CIMP 8A	Programming with Python	3
CIMW 105	Web Development and DB – Intro SQL and MySQL	3
	Select from Restricted Electives:	9-11
	TOTAL UNITS FOR THE MAJOR:	**18-20**
Restricted Electives: Select 9-11 units from the following courses.		
CIM 1 *or*	Computer Information Systems	4
CIM 10	Introduction to Information Systems	3
CIM 112	Microsoft Office	3
CIMA 104	Spreadsheets Excel	3
CIMA 204 *	Advanced Spreadsheets - Excel	4
CIMP 3	Introduction to Video Game Design	3
CIMP 5	Business Programming I - Visual Basic	3.5
CIMP 7B *	Business Programming - Java--Advanced	3
CIMP 115	Business Programming--C#	3.5
CIMP 220	Android Mobile Apps – Beginner	3.5
CIMP 235	IPHONE & IPAD Programming Beginning	3.5
CIMP 241	Cloud Computing for Developers	3.5
CIMW 100A *	Web Site Development - HTML-Beginning	1.5
CIMW 160	Web Development - JavaScript, Frameworks, jQuery and AJAX	3
CIMW 250	Microsoft ASP.NET—Beginning	3.5

*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.

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 emphasizes modern-day programming emphasizing both the most popular language Java and the fastest growing language Python. Also, the universally excepted SQL database language is covered. Students also have the option to pursue concentrations in Microsoft Office applications, especially Excel, along with video game design, web development, and specific Android/Apple mobile development.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Identify and perform all stages of the Systems Development Lifecycle
- Demonstrate a working knowledge of database communication language SQL
- Successfully code, compile, execute, and debug programs in various programming languages

REQUIRED COURSES:

Course ID	Title	Units
CIMP 7A	Business Programming - Java -- Beginning	3
CIMP 8A	Programming with Python	3
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
	Select from Restricted Electives:	8-11
	TOTAL UNITS FOR THE CERTIFICATE:	**17-20**
Restricted Electives: Select 8-11 units from the following courses:		
CIM 1 *or*	Computer Information Systems	4
CIM 10	Introduction to Information Systems	3
CIM 112	Microsoft Office	3
CIMA 104	Spreadsheets Excel	3
CIMA 204 *	Advanced Spreadsheets - Excel	4
CIMP 3	Introduction to Video Game Design	3
CIMP 5	Business Programming I - Visual Basic	3.5
CIMP 7B *	Business Programming - Java -- Advanced	3
CIMP 115	Business Programming - C#	3.5
CIMP 220	Android Mobile Apps - Beginner	3.5
CIMP 235	IPHONE & IPAD Programming Beginning	3.5
CIMP 241	Cloud Computing for Developers	3.5
CIMW 100A *	Web Site Development HTML-Beginning	1.5
CIMW 160	Web Development - JAVASCRIPT, Frameworks, JQuery and AJAX	3
CIMW 250	Microsoft ASP.NET -- Beginning	3.5

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

Cybersecurity/Information Security Analyst
Certificate of Achievement

The Cybersecurity/Information Security Analyst Certificate of Achievement provides students the opportunity to master the necessary computer information security concepts to implement safe, secure, digital systems and also the ability to detect and repair various cyber-attacks. The certificate is designed to prepare students for entry-level professions in the fast-growing field of computer security as cybersecurity analysts, information security analysts, and general entry-level Information Technology (IT) professionals. The core requirements include preparation for four DOD and industrial coveted Comp TIA IT security certificates: A+, Network+, Security+ and CySA+. This certificate includes elective courses in perfecting skills in operating system command line skills, HTML/JavaScript reading proficiency, and Python the language of choice for cybersecurity scripting.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Describe and outline the hardware and software components of a secure digital network.
- Identify various types of network and information attacks.
- Evaluate the computer network and information security needs of an organization.

REQUIRED CORE:

Course ID	Title	Units
CIMN 110	Networking Essentials and Technologies for IT Cybersecurity	3
CIMN 120	Introduction to Networking: CompTIA Network+	3
CIMS 130	Intro to Information Systems Security: Comp TIA Security+	3
CIMS 155 *	Cybersecurity Analysis - CompTIA CYSA+	3
	Restricted Electives	9-10
	TOTAL UNITS FOR THE CERTIFICATE:	**21-22**
Restricted Electives: Select 9-10 units from the following courses:		
CIM 1 *or*	Computer Information Systems	4
CIM 10	Introduction to Information Systems	3
CIMN 100	Computer Operating Systems - Windows	3
CIMN 130	Computer Operating Systems - UNIX and LINUX	3
CIMN 140 *	Fundamental Unix/Linux System Administration	3
CIMN 160	CISCO CCNA: Routing and Switching Essentials	3
CIMP 8A	Programming with Python	3
CIMS 140	Introduction to Computer Forensics	3
CIMS 150	Introduction to Cybersecurity: Ethical Hacking	3
CIMS 165 *	Cybersecurity Operations - CISCO CCNA CYBER OPS	3
CIMW 100A *	Web Site Development - HTML- Beginning	1.5
CIMW 100B *	Web Site Development - HTML--Advanced	1.5
CIMW 160	Web Development - JavaScript, Frameworks, JQuery, and AJAX	3

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

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 e-commerce employment skills.
- Create basic websites and interface to databases.
- Demonstrate comprehensive terminology and industrial standards governing web e-commerce.

REQUIRED COURSES:

Course ID	Title	Units
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMW 115	Intro Creating Web Pages Dreamweaver and WordPress	3
CIMW 145	Web Development - PHP, CMS and WordPress And E-Commerce	3
CIMW 160	Web Development - JavaScript, Frameworks, JQuery, and AJAX	3
CIMW 280 ‡	Web Design - Capstone Portfolio Project	1.5
	Select from Restricted Electives	6-7.5
	TOTAL UNITS FOR THE MAJOR:	**19.5-21**
Restricted Electives: Select 3-4.5 units from the following courses:		
CIMP 7A	Business Programming - Java--Beginning	3
CIMP 7B *	Business Programming - Java -Advanced	3
CIMP 8A	Programming with Python	3
BUS 109	E-Commerce Marketing	3
CIMW 100A	Web Site Development - HTML -Beginning	1.5
CIMW 100B	Web Site Development - HTML--Advanced	1.5

Course ID	Title	Units
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 207	Social Media & Web Fundamentals	1.5
CIMW 241 *	Introduction to Content Management Systems (CMS)-WordPress	3

*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.

E-Commerce Specialist
Certificate of Achievement

This program introduces students to creating and maintaining ecommerce web sites. The program emphasis is on industrial standards. These include SQL the database communication language, PHP the most used server-side web scripting language, JavaScript the most used client-side scripting language, jQuery the most used client-side JavaScript framework. The restricted electives allow a student to emphasize either marketing, WordPress, or programming.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Demonstrate key e-commerce employment skills.
- Create basic websites and interface to databases.
- Demonstrate comprehensive terminology and industrial standards governing web e-commerce.

REQUIRED COURSES:

Course ID	Title	Units
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMW 115	Intro Creating Web Pages Dreamweaver and WordPress	3
CIMW 145	Web Development - PHP, CMS and WordPress And E-Commerce	3
CIMW 160	Web Development - JavaScript, Frameworks, JQuery, and AJAX	3
CIMW 280 ‡	Web Design - Capstone Portfolio Project	1.5
	Select from Restricted Electives	3-4.5
TOTAL UNITS FOR THE CERTIFICATE:		**16.5-18**
Restricted Electives: Select 3-4.5 units from the following courses:		
CIMP 7A	Business Programming - Java--Beginning	3
CIMP 8A	Programming with Python	3
BUS 109	E-Commerce Marketing	3
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 207	Social Media & Web Fundamentals	1.5
CIMW 241 *	Introduction to Content Management Systems (CMS)-WordPress	3

*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

Course ID	Title	Units
CIMS 200 *	Information Security Fundamentals	3
CIMS 210	Network Defense and Countermeasures	3
CIMS 220	Information Security Management	3
CIMS 230	Security+	3
CIMS 250	Introduction to Cybersecurity: Ethical Hacking/Cyberlaw	3
	TOTAL UNITS FOR THE AWARD:	**15**

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

Network Administrator
Associate of Science

This program prepares students for entry-level positions as either operating system or network administrators. The core requirements for the certificate include preparation for industrial coveted CompTIA A+ and Network+ certificates. The restrictive electives allow students to either emphasize networking with Cisco, a worldwide leader in cybersecurity solutions and computers networking, or students can emphasize Microsoft Window's system administration. Other emphases might be Microsoft Window's desktop applications or SQL databases.

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 knowledge of IT and network terminology.
- Describe various command line operating system commands.

REQUIRED COURSES:

Course ID	Title	Units
CIMN 100	Computer Operating Systems- Windows	3
CIMN 110	Networking Essentials and Technologies for IT Cybersecurity	3
CIMN 120	Introduction to Networking: CompTIA Network+	3
CIMN 130	Computer Operating Systems - UNIX and Linux	3
	Restricted Electives	6-7
	TOTAL UNITS FOR THE MAJOR:	**18-19**
Restricted Electives: Select 6-7 Units from the following:		
CIM 1 *or*	Computer Information systems	4
CIM 112	Microsoft Office	3
CIMP 7A	Business Programming - Java--Beginning	3
CIMP 7B *	Business Programming - Java--Advanced	3
CIMP 8A	Programming with Python	3
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMN 140 *	Fundamental UNIX/Linux System Administration	3
CIMN 160	Cisco CCNA: Routing and Switching Essentials	3
CIMN 220A	MCSE Certification Exam Prep I	3
CIMN 220B	MCSE Certification Exam Prep II	3
CIMN 220C	MCSE Certification Exam Prep III	3
CIMS 130	Intro to Information Systems Security: CompTIA Security+	3
CIMS 150	Introduction to Cybersecurity: Ethical Hacking	3

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
+ Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate 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
Certificate of Achievement

This program prepares students for entry-level positions as either operating system or network administrators. The core requirements for the certificate include preparation for industrial coveted CompTIA A+ and Network+ certificates. The restrictive electives allow students to either emphasize networking with Cisco, a worldwide leader in cybersecurity solutions and computers networking, or students can emphasize Microsoft Window's system administration. Other emphases might be Microsoft Window's desktop applications or SQL databases.

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 knowledge of IT and network terminology.
- Describe various command line operating system commands.

Course ID	Title	Units
CIMN 100	Computer Operating Systems- Windows	3
CIMN 110	Networking Essentials and Technologies for IT Cybersecurity	3
CIMN 120	Introduction to Networking: CompTIA Network+	3
CIMN 130	Computer Operating Systems - UNIX and Linux	3
	Restricted Electives	6-7
	TOTAL UNITS FOR THE CERTIFICATE:	**18-19**
Restricted Electives: Select 6-7 Units from the following:		
CIM 1 *or*	Computer Information Systems	4
CIM 112	Microsoft Office	3
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMN 140 *	Fundamental UNIX/Linux System Administration	3
CIMN 160	CISCO CCNA: Routing and Switching Essentials	3
CIMN 220A	MCSE Certification Exam Prep I	3
CIMN 220B	MCSE Certification Exam Prep II	3
CIMN 220C	MCSE Certification Exam Prep III	3
CIMS 130	Intro to Information Systems Security: CompTIA Security+	3
CIMS 150	Introduction to Cybersecurity: Ethical Hacking	3

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

Software Specialist
Associate of Science

The Software Specialist program prepares the student for an entry-level position as a knowledge worker in the technical work environment using industry-standard software packages. The program focuses on the most popular Microsoft 365 applications. A student should be able to obtain work as a computer support specialist or help in obtaining numerous office administrator roles.

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

Course ID	Title	Units
CIM 1 *or*	Computer Information Systems	4
CIM 112	Microsoft Office	3
CIMA 102	Word Processing - Word	3
CIMA 104	Spreadsheets - Excel	3
CIMA 106 *or*	Database- Access	3
CIMW 105	Web Development and DB – Intro SQL and MySQL	3
CIMA 108	Business Presentations - Powerpoint	3
	Select from Restricted Electives	3
TOTAL UNITS FOR THE MAJOR:		**18-19**
RESTRICTED ELECTIVES		
CIM 10	Introduction to Information Systems	3
CIM 121A	Keyboarding for Computers - Beginning	1.5
CIM 121B *	Keyboarding for Computers - Intermediate	1.5
CIM 121C *	Keyboarding for Computers - Advanced	1.5
CIMW 134	Web Digital Media- Photoshop and Intro to Video Editing	3
CIMA 204	Advanced Spreadsheets - Excel	3
CIMA 212	Managing Projects with Microsoft Project	3
CIMA 223A *	Computerized Accounting - Quickbooks-Beginning	1.5
CIMA 223B *	Computerized Accounting - Quickbooks-Advanced	1.5
CIMN 100	Computer Operating Systems- Windows	3
CIMN 130	Computer Operating Systems - Unix and Linux	3
CIMW 207	Social Media & Web Fundamentals	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 and to the Associate Degree – General Education Requirements in this catalog for specific courses which meet general education requirements.

Software Specialist
Certificate of Achievement

The Software Specialist program prepares the student for an entry-level position as a knowledge worker in the technical work environment using industry-standard software packages. The program focuses on the most popular Microsoft 365 applications. A student should be able to obtain work as a computer support specialist or help in obtaining numerous office administrator roles.

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

Course ID	Title	Units
CIM 1 *or*	Computer Information Systems	4
CIM 112	Microsoft Office	3
CIMA 102	Word Processing - Word	3
CIMA 104	Spreadsheets - Excel	3
CIMA 106 *or*	Database - Access	3

CIMW 105	Web Development and DB – Intro SQL and MySQL	3
CIMA 108	Business Presentations - Powerpoint	3
	Select from Restricted Electives	3
TOTAL UNITS FOR THE CERTIFICATE		**18-19**
RESTRICTED ELECTIVES		
CIM 10	Introduction to Information Systems	3
CIM 121A	Keyboarding for Computers - Beginning	1.5
CIM 121B *	Keyboarding for Computers - Intermediate	1.5
CIM 121C *	Keyboarding for Computers - Advanced	1.5
CIMW 134	Web Digital Media- Photoshop and Intro to Video Editing	3
CIMA 204	Advanced Spreadsheets – Excel	3
CIMA 212	Managing Projects with Microsoft Project	3
CIMA 223A *	Computerized Accounting - Quickbooks-Beginning	1.5
CIMA 223B *	Computerized Accounting - Quickbooks-Advanced	1.5
CIMN 100	Computer Operating Systems- Windows	3
CIMN 130	Computer Operating Systems - Unix and Linux	3
CIMW 207	Social Media & Web Fundamentals	1.5

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

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.

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.
- Describe components of a web page.

REQUIRED CORE

Course ID	Title	Units
CIMW 134	Web Digital Media- Photoshop and Intro to Video Editing	3
CIMW 100A *	Web Site Development - HTML-Beginning	1.5
CIMW 115	Intro Creating Web Pages Dreamweaver and WordPress	3
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 160	Web Development - JavaScript, Frameworks, JQuery and AJAX	3
CIMW 280 ‡	Web Design - Capstone Portfolio Project	1.5
	Select from Restricted Electives	6-8
TOTAL UNITS FOR THE MAJOR:		**21-23**
RESTRICTED ELECTIVES: Select 6-8 Units from the following courses:		
CIMP 5	Business Programming I - Visual Basic	3
CIMP 7A	Business Programming - JAVA--Beginning	3
CIMP 7B *	Business Programming - JAVA--Advanced	3
CIMP 8A	Programming with Python	3
CIMP 115	Business Programming--C#	3.5
CIMW 100B *	Web Site Development - HTML--Advanced	1.5
CIMW 105	Web Development and DB - Intro SQL and MySQL	3

Course ID	Title	Units
CIMW 145	Web Development - PHP, CMS and WordPress and E-Commerce	3
CIMW 207	Social Media & Web Fundamentals	1.5
CIMW 241	Introduction to Content Management Systems (CMS) - WordPress	3
CIMW 250	Microsoft ASP.NET--Beginning	3.5

*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.

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 CORE

Course ID	Title	Units
CIMW 134	Web Digital Media-Photoshop and Intro to Video Editing	3
CIMW 100A *	Web Site Development - HTML-Beginning	1.5
CIMW 115	Intro Creating Web Pages Dreamweaver and Word Press	3
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 280 ‡	Web Design - Capstone Portfolio Project	1.5
	Select from Restricted Electives	5 - 6.5
TOTAL UNITS FOR THE CERTIFICATE		**17-18.5**
RESTRICTED ELECTIVES		
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMW 100B *	Web Site Development - HTML--Advanced	1.5
CIMW 145	Web Development - PHP, CMS and WordPress and E-Commerce	3
CIMW 250	Microsoft ASP.net--Beginning	3.5
CIMW 160	Web Development - Javascript, Frameworks, JQuery and Ajax	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
‡Final course to be taken

Webmaster
Associate of Science

The Webmaster program prepares the student to build websites and maintain a web server. The degree covers server-level aspects of web construction so one can efficiently run a business, government, or individual website. Topics include networking, operating system, web development, and database. The flexible restricted electives allow a student to further specialize in either operating system administration, web design, programming, or networking/security. With this Saddleback certificate, students can achieve two or more industry-coveted CompTIA certificates.

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.
- Demonstrate knowledge of the web, networking, database, and operating system terminology.

Course ID	Title	Units
CIMN 100 *or*	Computer Operating Systems- Windows	3
CIMN 130	Computer Operating Systems - UNIX and Linux	3
CIMN 120	Introduction to Networking: CompTIA Network +	3
CIMW 100A *	Web Site Development - HTML- Beginning	1.5
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMW 280 ‡	Web Design - Capstone Portfolio Project	1.5
	Select from Restricted Electives	9-10
	TOTAL UNITS FOR THE MAJOR:	**21-22**
Restricted Electives: Select 9-10 units from the following.		
CIM 1	Computer Information Systems	4
CIMN 110	Networking Essentials and Technologies for IT Cybersecurity	3
CIMN 140 *	Fundamental UNIX/Linux System Administration	3
CIMN 220A	MCSE Certification Exam Prep I	3
CIMN 220B *	MCSE Certification Exam Prep II	3
CIMN 220C *	MCSE Certification Exam Prep III	3
CIMP 5	Business Programming I - Visual Basic	3.5
CIMP 7A	Business Programming - Java - Beginning	3
CIMP 7B *	Business Programming - Java - Advanced	3
CIMP 8A	Programming with Python	3
CIMP 115	Business Programming -- C#	3.5
CIMS 130	Intro to Information Systems Security: CompTIA Security +	3
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 145	Web Development - PHP, CMS, and WordPress and E-Commerce	3
CIMW 160	Web Development - JavaScript, Frameworks, Jquery and AJAX	3
CIMW 250	Microsoft ASP.net -- Beginning	3.5

*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 of12 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
Certificate of Achievement

The Webmaster program prepares the student to build websites and maintain a web server. The certificate covers server-level aspects of web construction so one can efficiently run a business, government, or individual website. Topics include networking, operating system, web development, and database. The flexible restricted electives allow a student to further specialize in either operating system administration, web design, programming, or networking/security. With this Saddleback certificate, students can achieve two or more industry-coveted CompTIA certificates.

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.
- Demonstrate knowledge of the web, networking, database, and operating system terminology.

Course ID	Title	Units
CIMN 100 *or* CIMN 130	Computer Operating Systems- Windows Computer Operating Systems - UNIX and Linux	3 3
CIMN 120	Introduction to Networking: CompTIA Network+	3
CIMW 100A	Web Site Development – HTML- Beginning	1.5
CIMW 105	Web Development and DB - Intro SQL and MySQL	3
CIMW 280 ‡	Web Design - Capstone Portfolio Project	1.5
	Select from Restricted Electives:	9-10
	TOTAL UNITS FOR THE CERTIFICATE:	**21-22**
Restricted Electives: Select 9-10 units from the following.		
CIMN 110	Networking Essentials and Technologies for IT Cybersecurity	3
CIMN 140 *	Fundamental Unix/Linux System Administration	3
CIMN 220A	MCSE Certification Exam Prep I	3
CIMN 220B *	MCSE Certification Exam Prep II	3
CIMN 220C *	MCSE Certification Exam Prep III	3
CIMP 5	Business Programming I - Visual Basic	3.5
CIMP 7A	Business Programming - Java - Beginning	3
CIMP 7B *	Business Programming - Java - Advanced	3
CIMP 8A	Programming with Python	3
CIMP 115	Business Programming--C#	3.5
CIMS 130	Intro to Information Systems Security: CompTIA Security +	3
CIMW 140	CSS (Cascading Style Sheets) & RWD (Responsive Web Design)	3
CIMW 145	Web Development - PHP, CMS and WordPress and E-Commerce	3
CIMW 160	Web Development - JavaScript, Frameworks, Jquery and AJAX	3
CIMW 250	Microsoft ASP.net -- Beginning	3.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
‡Final course to be taken

Computer Maintenance Technology

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 *or*	Computer Information Systems	4
CIM 10	Introduction to Information Systems	3
CIMN 100	Computer Operating Systems- Windows	3
CMT 215 *or*	Electronics for Computer Technologists	3
ET 101 *or*	Survey of Electronics	3
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 MAJOR:	**21-23**

*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 110, CIMN 120; ET 114.

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 *or*	Computer Information Systems	4
CIM 10	Introduction to Information Systems	3
CIMN 100	Computer Operating Systems- Windows	3
CMT 215 *or*	Electronics for Computer Technologists	3
ET 101 *or*	Survey of Electronics	3
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.

Computer Science

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:

Course ID	Title	Units
CS 1A	Introduction to Computer Science I	3.5
CS 1B *	Introduction to Computer Science II	3.5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
CS 1C *	Introduction to Computer Science III	3.5
MATH 3B *	Analytic Geometry and Calculus	5
CS 3A *	Computer Organization and Machine Language	3.5
CS 1D *	Data Structures	3.5
CS 3B *	Computer Organization and Assembly Language	3.5
	Select from Restricted Electives	3.5-4
TOTAL UNITS FOR THE MAJOR:		**34.5-35**
Restricted Electives		
CS 4A *	Introduction to Java for Computer Science	3.5
CS 4B *	Advanced Topics in Java for Computer Science	3.5
ET 114 *	Digital Electronic Circuits	4

*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.

Cyber Defense
Associate of Science

The Saddleback Cyber Defense program starts students on a pathway to becoming a United States Department of Defense (DoD) Cyber Security Service Provider (CSSP) in the form of a Computer Science Associate of Science degree that is built for transfer along with the preparation needed to take the Certified Ethical Hacker exam which meets the minimum certificate requirements for the CSSP Analyst, Infrastructure Support, Incident Responder, and Auditor levels.

The United States Department of Defense (DoD) Cyber Security Service Provider (CSSP) workforce consist of 5 different levels of employment (e.g. Analyst, Infrastructure Support, Incident Responder, Auditor, and Manager), with each requiring one or more industry certificates along with a 4-year degree. The CSSP is a highly sought-after certification issued by the United States Department of Defense (DoD) that indicates a candidate's fitness for the DoD CSSP workforce.

Program Student Learning Outcomes
Student who complete this program will be able to:
- Core Computer Science skillsets needed to develop algorithmic solutions to non-trivial problems.
  - Systems Thinking: Analyze, design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
  - Problem Solving: Identify problems and formulate solutions for systems and organizations while reconciling conflicting objectives and finding compromises.
  - Pragmatic Approach: Apply computing theory and programming principles to practical software design and development.
- Core Mathematic skillsets needed to see mathematical structures in the objects you work with and understand their properties. This ability is important for software engineers, data scientists, security and financial analysts.
  - Apply basic algorithmic techniques such as greedy algorithms, binary search, sorting and dynamic programming to solve programming challenges.
  - Apply various data structures such as stack, queue, hash table, priority queue, binary search tree, graph and string to solve programming challenges.
  - Apply graph and string algorithms to solve real-world challenges: finding shortest paths on huge maps and assembling genomes from millions of pieces.
  - Solve complex programming challenges using advanced techniques: maximum flow, linear programming, approximate algorithms, SAT-solvers, streaming

The following SLO is aligned with the NSA/DoD Knowledge Units (KU).

- Cybersecurity Foundations (CSF) – The intent of the Cybersecurity Foundations Knowledge Unit is to provide students with a basic understanding of the fundamental concepts behind cybersecurity. To complete this KU, students should be able to:
  - Describe the fundamental concepts of the cybersecurity discipline and use to provide system security.
  - Describe potential system attacks and the actors that might perform them.
  - Describe cyber defense tools, methods and components and apply cyber defense methods to prepare a system to repel attacks.
  - Describe appropriate measures to be taken should a system compromise occur.
  - Properly use the vocabulary associated with cybersecurity.

REQUIRED CORE:

Course ID	Title	Units
CS 1A	Introduction to Computer Science I	3.5
CS 1B *	Introduction to Computer Science II	3.5
MATH 2 *	Pre-Calculus Mathematics	5
CS 30A * *or*	Computer Discrete Mathematics I	3
MATH 30A *	Computer Discrete Mathematics I	3
CS 30B * *or*	Computer Discrete Mathematics II	3
MATH 30B *	Computer Discrete Mathematics II	3
CS 3A *	Computer Organization and Machine Language	3.5
CS 3B *	Computer Organization and Assembly Language	3.5
CIMS 150 *	Introduction to Cybersecurity: Ethical Hacking	3
TOTAL UNITS FOR THE MAJOR:		**28**

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.

Cyber Operations
Certificate of Achievement

The Saddleback Cyber Operations certificate is designed to provide hands-on learning and experience to develop tomorrow's cyber defenders. Students will learn how to protect networks and data through intelligence gathering, threat detection, incident response, digital forensics, and security monitoring. Students need to have completed the Saddleback College's Cyber Defense A.S. degree or equivalent course work prior to enrolling in order to meet the prerequisite Computer Science – Cyber Defense requirements. This

certificate augments the CS Cyber Defense A.S. degree by providing students with hands-on learning and experience in a Cyber Defense Operations Center (CDOC) and preparation for three (3) additional DoD Approved 8570 Baseline Certifications (CCNA Cyber Ops, CompTIA CySA+, and CompTIASec+) which exceeds the minimum certificate requirements for the CSSP Analyst, Infrastructure Support, Incident Responder, and Auditor levels.

The United States Department of Defense (DoD) Cyber Security Service Provider (CSSP) workforce consist of 5 different levels of employment (e.g. Analyst, Infrastructure Support, Incident Responder, Auditor, and Manager), with each requiring one or more industry certificates along with a 4-year degree. The CSSP is a highly sought-after certification issued by the United States Department of Defense (DoD) that indicates a candidate's fitness for the DoD CSSP workforce.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate an understanding of the latest trends and techniques in risk management, risk mitigation, threat management and intrusion detection.
- Demonstrate the principles and concepts of Security Operations and core Cyber Operations skills needed to begin working in a Cyber Security Operations Center (CSOC).
- Perform data analysis and interpret the results to identify vulnerabilities, threats and risks to an organization.
- Configure and use threat-detection tools.
- Secure and protect applications and systems within an organization.
- Apply the fundamentals of Crytography, Crytoanalysis, and Cryptology in a Cyber Operations environment.

REQUIRED COURSES:

Course ID	Title	Units
CS 1D *	Data Structures	3.5
CIMS 130	Intro to Information Systems Security: CompTIA Security+	3
CIMS 165 *	Cybersecurity Operations- Cisco CCNA Cyber OPS	3
CIMS 155 *	Cybersecurity Analysis - CompTIA CYSA+	3
CS 260 *	Cryptography in Cyber Operations	3.5
	TOTAL UNITS FOR THE CERTIFICATE:	**16**

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

Cosmetology

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.

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

REQUIRED COURSES:

Course ID	Title	Units
COS 211 * *or*	Cosmetology Freshman-Level 1	12
COS 211A *	Cosmetology Freshman-Level 1A	6
COS 211B *	Cosmetology Freshman-Level 1B	6
COS 212 * *or*	Cosmetology Intermediate-Level 2	12
COS 212A *	Cosmetology Intermediate-Level 2A	6
COS 212B *	Cosmetology Intermediate-Level 2B	6
COS 213 * *or*	Cosmetology Advanced-Level 3	12
COS 213A *	Cosmetology Advanced-Level 3A	6
COS 213B *	Cosmetology Advanced-Level 3B	6
COS 214 * *or*	Cosmetology Senior-Level 4	12
COS 214A *	Cosmetology Senior-Level 4A	6
COS 214B *	Cosmetology Senior-Level 4B	6
TOTAL UNITS FOR THE AWARD:		**48 (1,600 hours)**

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

Esthetician
Associate of Science

The Esthetician Associate of Science degree consists of students' general education courses and 600-hours Esthetician coursework divided into two 300-hour courses designed to prepare the student for the California State Board Esthetician Examination for state licensure and success as an esthetician. Courses include both classroom instruction and laboratory practice. Successful completion of this program and passing of the California State Board Esthetician Examination allow the graduate esthetician to perform manual and electrical facials, microdermabrasion, eyebrow arching and hair removal (other than by electrolysis) on arms, face and legs, or become a makeup artist or skin care representative.

This program is offered on an open enrollment basis and a waiting list may be maintained for those students who desire to enroll. Transfer students will be accepted on a space available basis providing they have not achieved more than 300 certified hours of training. 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 esthetician 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Project a positive attitude and a sense of personal integrity and self-confidence.
- Respect the need to deliver worth service for value received in an employer-employee relationship.
- Practice effective communication skills, visual poise, and proper grooming.
- Perform basic manipulation skills in the areas of manual and electric facials, eyebrow shaping, skin treatments for normal, anti-aging and acne, and makeup for daily and formal events.
- Use basic analytical skills to determine proper chemicals and modalities to be used to treat the skin, including product knowledge to perform services on a diverse clientele, and understanding of color, contouring, and camouflage in makeup application for the client's overall health and image.
- Apply learned theory, technical information and related matter to assure sound judgments, decisions and procedures.

REQUIRED CORE:

Course ID	Title	Units
COS 250A *	Esthetician Level A	9
COS 250B *	Esthetician Level B	9
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
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.

Esthetician
Certificate of Achievement

The Esthetician Certificate of Achievement is a 600-hour program divided into two 300-hour courses designed to prepare the student for the California State Board Esthetician Examination for state licensure and success as an esthetician. Courses include both classroom instruction and laboratory practice. Successful completion of this program and passing of the California State Board Esthetician Examination allow the graduate esthetician to perform manual and electrical facials, microdermabrasion, eyebrow arching and hair removal (other than by electrolysis) on arms, face and legs, or become a makeup artist or skin care representative.

This program is offered on an open enrollment basis and a waiting list may be maintained for those students who desire to enroll. Transfer students will be accepted on a space available basis providing they have not achieved more than 300 certified hours of training. 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 esthetician 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Project a positive attitude and a sense of personal integrity and self-confidence.
- Respect the need to deliver worth service for value received in an employer-employee relationship.
- Practice effective communication skills, visual poise, and proper grooming.
- Perform basic manipulation skills in the areas of manual and electric facials, eyebrow shaping, skin treatments for normal, anti-aging and acne, and makeup for daily and formal events.
- Use basic analytical skills to determine proper chemicals and modalities to be used to treat the skin, including product knowledge to perform services on a diverse clientele, and understanding of color, contouring, and camouflage in makeup application for the client's overall health and image.
- Apply learned theory, technical information and related matter to assure sound judgments, decisions and procedures.

REQUIRED CORE:

Course ID	Title	Units
COS 250A *	Esthetician Level A	9
COS 250B *	Esthetician Level B	9
	TOTAL UNITS FOR THE CERTIFICATE:	**18**

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

Culinary Arts

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 of Science

The Advanced Culinary Arts Associate of Science program prepares students for many contemporary employment opportunities within the restaurant and hospitality industries as professional culinarians. Some of these positions include, but are not limited to, institution and cafeteria cooks, private household cooks, food preparation workers, food service managers, chefs and head cooks, first line supervisors of food preparation and serving workers, and line and prep cooks in all areas of restaurant and hospitality industries. The program offers coursework for both career training and professional improvement. Students will be provided with the essential skills of sanitation, foundational and advanced cooking and baking, various ethnic and regional cuisines as well as operations and production in order to reach their career goals and to be competitive in the marketplace.

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 CORE:

Course ID	Title	Units
FN 171 ❖ *or*	Sanitation and Safety	2
FN 210 ❖	Servsafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 142 *	Classical French Cuisine	2
FN 173 *	Catering and Banquets	3
FN 110 *	Food Preparation Essentials	3
FN 101 *	Culinary Principles I	3
FN 241 *	Culinary Principles II	3
FN 244 *	Baking Fundamentals I	3
FN 245 *	Baking Fundamentals II	3
FN 176	Food and Beverage Operations	3
CWE 180 † *and*	Co-Op-Ed Culinary Arts	2
FN 261 †	Internship	1
FN 50 *or*	Fundamentals of Nutrition	3
FN 205	Nutrition for Culinary Professionals	3
	Select two courses from Restricted Electives	2-6
TOTAL UNITS FOR THE MAJOR:		**37-43**

Restricted Electives (2-6 Units):		
FN 220 *	French Bistro Cuisine	2
FN 232 *	Techniques of Healthy Cooking	2
FN 140 *	World Cuisines	2
FN 222 *	Chinese Cuisine	2
FN 223 *	Asian Cuisine	2
FN 226 *	Mexican Cuisine	2
FN 227 *	Mediterranean Cuisine	2
FN 228 *	Italian Cuisine	2
FN 230 *	Vegetarian Cuisine	2
FN 236 *	American Regional Cuisine	2
FN 281	Flavor Dynamics	3
FN 235	European Regional Foods Tour	2
FN 282	Introduction to Herbs	2
FN 286 *	Sugar Confectionery	1
FN 287 *	Chocolate Confectionery	1
FN 288 *	Advanced Baking and Pastry	3

❖Students with valid California ServSafe Certification may have this core requirement waived.

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

†Recommended to be taken in the last semester of the program.

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.

Advanced Culinary Arts
Certificate of Achievement

The Advanced Culinary Arts Certificate of Achievement program prepares students for many contemporary employment opportunities within the restaurant and hospitality industries as professional culinarians. Some of these positions include, but are not limited to, institution and cafeteria cooks, private household cooks, food preparation workers, food service managers, chefs and head cooks, first line supervisors of food preparation and serving workers, and line and prep cooks in all areas of restaurant and hospitality industries. The program offers coursework for both career training and professional improvement. Students will be provided with the essential skills of sanitation, foundational and advanced cooking and baking, various ethnic and regional cuisines, as well as operations and production in order to reach their career goals and to be competitive in the marketplace.

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 CORE:

Course ID	Title	Units
FN 171 ❖ or	Sanitation and Safety	2
FN 210 ❖	Servsafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 142 *	Classical French Cuisine	2
FN 173 *	Catering and Banquets	3
FN 110 *	Food Preparation Essentials	3
FN 101 *	Culinary Principles I	3
FN 241 *	Culinary Principles II	3
FN 244 *	Baking Fundamentals I	3
FN 245 *	Baking Fundamentals II	3
FN 176	Food and Beverage Operations	3
CWE 180 † and	Co-Op-Ed Culinary Arts	2
FN 261 †	Internship	1
FN 50 or	Fundamentals of Nutrition	3
FN 205	Nutrition for Culinary Professionals	3
	Select two courses from Restricted Electives	2-6
TOTAL UNITS FOR THE CERTIFICATE:		**37-43**
Restricted Electives (2-6 Units):		
FN 220 *	French Bistro Cuisine	2
FN 232 *	Techniques of Healthy Cooking	2
FN 140 *	World Cuisines	2
FN 222 *	Chinese Cuisine	2
FN 223 *	Asian Cuisine	2
FN 226 *	Mexican Cuisine	2
FN 227 *	Mediterranean Cuisine	2
FN 228 *	Italian Cuisine	2
FN 230 *	Vegetarian Cuisine	2
FN 236 *	American Regional Cuisine	2
FN 281	Flavor Dynamics	3

Course ID	Title	Units
FN 235	European Regional Foods Tour	2
FN 282	Introduction to Herbs	2
FN 286 *	Sugar Confectionery	1
FN 287 *	Chocolate Confectionery	1
FN 288 *	Advanced Baking and Pastry	3

❖Students with valid California ServSafe Certification may have this core requirement waived.

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

†Recommended to be taken in the last semester of the program.

Basic Culinary Arts
Associate of Science

The Basic Culinary Arts Associate of Science degree program prepares students for many contemporary employment opportunities. These include jobs as institution and cafeteria cooks, private household cooks, food preparation workers, food service managers, chefs and head cooks, and first line supervisors of food preparation and serving workers. 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 marketplace.

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 CORE:

Course ID	Title	Units
FN 171 ❖ *or*	Sanitation and Safety	2
FN 210 ❖	ServSafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 110 *	Food Preparation Essentials	3
FN 101 *	Culinary Principles I	3
FN 241 *	Culinary Principles II	3
FN 244 *	Baking Fundamentals I	3
CWE 180 † *and*	Co-Op-Ed Culinary Arts	2
FN 261 †	Internship	1
FN 50 *or*	Fundamentals of Nutrition	3
FN 205	Nutrition for Culinary Professionals	3
	Select Three Courses from Restricted Electives	6
	TOTAL UNITS FOR THE MAJOR:	**30-32**
Restricted Electives:		
FN 220 *	French Bistro Cuisine	2
FN 232 *	Techniques of Healthy Cooking	2
FN 140 *	World Cuisines	2
FN 222 *	Chinese Cuisine	2
FN 142 *	Classical French Cuisine	2
FN 223 *	Asian Cuisine	2
FN 226 *	Mexican Cuisine	2
FN 227 *	Mediterranean Cuisine	2
FN 228 *	Italian Cuisine	2
FN 230 *	Vegetarian Cuisine	2
FN 236 *	American Regional Cuisine	2

Course ID	Title	Units
FN 235	European Regional Foods Tour	2
FN 282	Introduction to Herbs	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
❖Students with valid California ServSafe Certification may have this core requirement waived.
†Recommended to be taken in the last semester of the program.

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.

Basic Culinary Arts
Certificate of Achievement

The Basic Culinary Arts Certificate of Achievement program prepares students for many contemporary employment opportunities. These include jobs as institution and cafeteria cooks, private household cooks, food preparation workers, food service managers, chefs and head cooks, and first line supervisors of food preparation and serving workers. 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 marketplace.

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 CORE:

Course ID	Title	Units
FN 171 ❖ or	Sanitation and Safety	2
FN 210❖	ServSafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 110 *	Food Preparation Essentials	3
FN 101 *	Culinary Principles I	3
FN 241 *	Culinary Principles II	3
FN 244 *	Baking Fundamentals I	3
CWE 180 † and	Co-Op-Ed Culinary Arts	2
FN 261 †	Internship	1
FN 50 or	Fundamentals of Nutrition	3
FN 205	Nutrition for Culinary Professionals	3
	Select Three Courses from Restricted Electives	6
TOTAL UNITS FOR THE CERTIFICATE:		**30-32**
Restricted Electives:		
FN 220 *	French Bistro Cuisine	2
FN 232 *	Techniques of Healthy Cooking	2
FN 140 *	World Cuisines	2
FN 222 *	Chinese Cuisine	2
FN 142 *	Classical French Cuisine	2
FN 223 *	Asian Cuisine	2
FN 226 *	Mexican Cuisine	2
FN 227 *	Mediterranean Cuisine	2

Course ID	Title	Units
FN 228 *	Italian Cuisine	2
FN 230 *	Vegetarian Cuisine	2
FN 236 *	American Regional Cuisine	2
FN 235	European Regional Foods Tour	2
FN 282	Introduction to Herbs	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
❖Students with valid California ServSafe Certification may have this core requirement waived.
†Recommended to be taken in the last semester of the program.

Catering
Associate of Science

The Catering Associate of Science program is designed to prepare students for a wide variety of employment opportunities within catering operations such as catering managers, catering chefs and head cooks, catering cooks, and catering business owners. In addition, the program also 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 marketplace.

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 CORE:

Course ID	Title	Units
FN 171 *or*	Sanitation and Safety	2
FN 210	ServSafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 101 *	Culinary Principles I	3
FN 244 *	Baking Fundamentals I	3
FN 176	Food and Beverage Operations	3
FN 173 *	Catering and Banquets	3
FN 152	Special Events and Catering Management	3
FN 285	Personal Chef	3
CWE 180 † *and*	Co-Op-Ed Culinary Arts	2
FN 261 †	Internship	1
FN 50 *or*	Fundamentals of Nutrition	3
FN 205	Nutrition for Culinary Professionals	3
	Select from Two Courses from Restricted Electives	2-6
TOTAL UNITS FOR THE MAJOR:		**32-38**
Restricted Electives:		
FN 220 *	French Bistro Cuisine	2
BUS 160	Entrepreneurship	3
FN 232 *	Techniques of Healthy Cooking	2
FN 140 *	World Cuisines	2
FN 222 *	Chinese Cuisine	2
FN 245 *	Baking Fundamentals II	3
FN 142 *	Classical French Cuisine	2
FN 223 *	Asian Cuisine	2
FN 226 *	Mexican Cuisine	2

Course ID	Title	Units
FN 227 *	Mediterranean Cuisine	2
FN 228 *	Italian Cuisine	2
FN 230 *	Vegetarian Cuisine	2
FN 236 *	American Regional Cuisine	2
FN 281	Flavor Dynamics	3
FN 235	European Regional Foods Tour	2
FN 282	Introduction to Herbs	2
FN 286 *	Sugar Confectionery	1
FN 287 *	Chocolate Confectionery	1
FN 288 *	Advanced Baking and Pastry	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Students with valid California ServSafe Certification may have this core requirement waived.
†Recommended to be taken in last semester of program.

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.

Catering
Certificate of Achievement

The Catering Certificate of Achievement program is designed to prepare students for a wide variety of employment opportunities within catering operations such as catering managers, catering chefs and head cooks, catering cooks, and catering business owners. In addition, the program also 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 marketplace.

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 CORE:

Course ID	Title	Units
FN 171 ❖ or	Sanitation and Safety	2
FN 210 ❖	ServSafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 101 *	Culinary Principles I	3
FN 244*	Baking Fundamentals I	3
FN 176	Food and Beverage Operations	3
FN 173 *	Catering and Banquets	3
FN 152	Special Events and Catering Management	3
FN 285	Personal Chef	3
CWE 180 † and	Co-Op-Ed Culinary Arts	2
FN 261 †	Internship	1
FN 50 or	Fundamentals of Nutrition	3
FN 205	Nutrition for Culinary Professionals	3
	Select from Two Courses from Restricted Electives	2-6

Course ID	Title	Units
	TOTAL UNITS FOR THE CERTIFICATE:	**32-38**
Restricted Electives:		
FN 220 *	French Bistro Cuisine	2
BUS 160	Entrepreneurship	3
FN 232 *	Techniques of Healthy Cooking	2
FN 140 *	World Cuisines	2
FN 222 *	Chinese Cuisine	2
FN 245 *	Baking Fundamentals II	3
FN 142 *	Classical French Cuisine	2
FN 223 *	Asian Cuisine	2
FN 226 *	Mexican Cuisine	2
FN 227 *	Mediterranean Cuisine	2
FN 228 *	Italian Cuisine	2
FN 230 *	Vegetarian Cuisine	2
FN 236 *	American Regional Cuisine	2
FN 281	Flavor Dynamics	3
FN 235	European Regional Foods Tour	2
FN 282	Introduction to Herbs	2
FN 286 *	Sugar Confectionery	1
FN 287 *	Chocolate Confectionery	1
FN 288 *	Advanced Baking and Pastry	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
❖Students with valid California ServSafe Certification may have this core requirement waived.
†Recommended to be taken in last semester of program.

Dance

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 CORE:

Course ID	Title	Units
DANC 9	Choreography	3
DANC 10 *or*	Dance Production	1
DANC 10 *or*	Dance Production	2
DANC 11 *or*	Dance Rehearsal and Performance	1
DANC 11	Dance Rehearsal and Performance	2
DANC 12 * *or*	Intermediate Dance Production	1
DANC 14 *	Intermediate Dance Rehearsal and Performance	1
DANC 52 *or*	Ballet Dancing Level I	1
DANC 52	Ballet Dancing Level I	1.5
DANC 53 * *or*	Intermediate Ballet	1
DANC 53 *	Intermediate Ballet	1.5
DANC 54 *or*	Introduction to Modern Dance	1
DANC 54	Introduction to Modern Dance	1.5
DANC 55 * *or*	Modern Dance Level I	1
DANC 55 *	Modern Dance Level I	1.5
DANC 57 *or*	Introduction to Jazz Dancing	1
DANC 57	Introduction to Jazz Dancing	1.5
DANC 58 *or*	Jazz Dancing Level I	1
DANC 58	Jazz Dancing Level I	1.5
DANC 64	History of Dance	3
DANC 78	Hip Hop	1
DANC 79 *	Hip Hop Level I	1
	Select from Restricted Electives	5-6
TOTAL UNITS FOR THE MAJOR:		**21-26**

Restricted Electives:

Course ID	Title	Units
DANC 8	Dance Pedagogy	3
DANC 15 * *or*	Repertory I	1
DANC 15 *	Repertory I	2
DANC 16 *	Repertory II	1
DANC 17	Site Specific Performance	1
DANC 18 *	Dance Ensemble Performance	2
DANC 19 *	Choreography II	3
DANC 28	Yoga for Dancers	1.5
DANC 51 *or*	Introduction to Ballet	1
DANC 51	Introduction to Ballet	1.5
DANC 59 * *or*	Intermediate Jazz Dancing	1
DANC 59 *	Intermediate Jazz Dancing	1.5
DANC 60	Introduction to Tap Dancing	1
DANC 61	Tap Dancing Level I	1
DANC 62 *	Intermediate Tap Dancing	1
DANC 63	Exercise for Dancers	1
KNES 65 *or*	Introduction to Mat Pilates	1
KNES 65	Introduction to Mat Pilates	1.5
DANC 66	Introduction to Latin Dance	1
DANC 67 * *or*	Pointe Ballet	1
DANC 67 *	Pointe Ballet	1.5

Course ID	Title	Units
DANC 68	Introduction to Social Dance	1
DANC 69 *	Intermediate Social Dance	1
DANC 70 *	Intermediate Latin Dance	1
DANC 71 * or	Advanced Ballet	1
DANC 71 *	Advanced Ballet	1.5
DANC 72 * or	Advanced Modern Dance	1
DANC 72 *	Advanced Modern Dance	1.5
DANC 73 *	Advanced Jazz Dance	1
DANC 74	Multicultural Dance History in the United States	3
DANC 75 *	Advanced Tap Dance	1
DANC 80 *	Intermediate Hip Hop	1
DANC 81 *	Advanced Hip Hop	1
DANC 82	African Dance I	1
DANC 83	African Dance II	1
DANC 184	Middle Eastern Dance	1
ETT 41 *	Lighting Design Fundamentals	3
ETT 42	Costume Design	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.

Drafting Technology

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 or	Engineering Graphics	3
DR 100 <	Fundamentals of Industrial and Mechanical Design	3
DR 50 * or	Introduction to Computer-Aided Drafting	3
ARCH 50 *	Introduction to Computer-Aided Drafting	3
DR 51 * or	Computer-Aided Drafting	3
ARCH 51 *	Computer-Aided Drafting	3
DR 101 *	Mechanical Design	3

Course ID	Title	Units
DR 102	Mech Design and Marketing Portfolio	3
DR 120	Engineering Technology	3
DR 152 * *or*	Advanced Computer-Aided Design	3
ARCH 152 *	Advanced Computer-Aided Design	3
DR 200 *	3D Parametric Modeling - Solidworks	3
DR 201 *	Advanced 3D Parametric Modeling - Solidworks	3
DR 202 *	Geometric Dimensioning and Tolerancing	3
DR 203	Green & Sustainable Manufacturing Design	3
	Select one course from Restricted Electives	3
TOTAL UNITS FOR THE MAJOR:		**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.

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.

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: Auto CAD 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

Course ID	Title	Units
DR 23 *or*	Engineering Graphics	3
DR 100 <	Fundamentals of Industrial and Mechanical Design	3
DR 50 * *or*	Introduction to Computer-Aided Drafting	3
ARCH 50 *	Introduction to Computer-Aided Drafting	3
DR 51 * *or*	Computer-Aided Drafting	3
ARCH 51	Computer-Aided Drafting	3
DR 101 *	Mechanical Design	3
DR 102	Mech Design and Marketing Portfolio	3
DR 120	Engineering Technology	3
DR 152 * *or*	Advanced Computer-Aided Design	3
ARCH 152 *	Advanced Computer-Aided Design	3
DR 200 *	3D Parametric Modeling - Solidworks	3
DR 201 *	Advanced 3D Parametric Modeling - Solidworks	3

Course ID	Title	Units
DR 202 *	Geometric Dimensioning and Tolerancing	3
DR 203	Green & Sustainable Manufacturing Design	3
	Select one course 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.

Economics

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.

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 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:

Course ID	Title	Units
ECON 2 * *or*	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
ECON 4 * *or*	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
MATH 10 *	Introduction to Statistics	3
MATH 11 * *or*	A Brief Course in Calculus	5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
Group A: Select one of the following courses (3-5 units)		
MATH 3B *	Analytic Geometry and Calculus	5
ACCT 1A	Financial Accounting	4

Course ID	Title	Units
ACCT 1B *	Managerial Accounting	4
CIM 1	Computer Information Systems	4
BUS 104 *	Business Communication	3
Group B: Select one of the following courses or any course from Group A not already used (3-5 units)		
PS 11 *or*	International Political Economy	3
ECON 11	International Political Economy	3
MATH 3C *	Analytic Geometry and Calculus	5
MATH 26 *	Introduction to Linear Algebra	4
TOTAL UNITS FOR THE MAJOR:		**20-24**

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

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:

Course ID	Title	Units
ECON 2 * *or*	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
ECON 4 * *or*	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
PS 11 *or*	International Political Economy	3
ECON 11	International Political Economy	3
MATH 11 * *or*	A Brief Course in Calculus	5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
	Select from Restricted Electives	6-9
TOTAL UNITS FOR THE MAJOR:		**20-23**
Restricted Electives:		
ACCT 1A	Financial Accounting	4
ACCT 1B *	Managerial Accounting	4
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
BUS 104 *	Business Communication	3
CIM 1	Computer Information Systems	4
CIM 10	Introduction to Information Systems	3
MATH 3B *	Analytic Geometry and Calculus	5
MATH 10 *	Introduction to Statistics	3

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.

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

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 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 124, MATH 253, MATH 7; PHYS 2A, PHYS 2B, PHYS 20.

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.

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

Course ID	Title	Units
ET 114 *	Digital Electronic Circuits	4
ET 133	DC and AC Fundamentals	4
ET 135 *	Semiconductor Devices and Circuits	4
	Total Units for the Award:	12

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

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
	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.

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.

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.

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:

Course ID	Title	Units
ET 114 *	Digital Electronic Circuits	4
ET 133	DC and AC Fundamentals	4
ET 135 *	Semiconductor Devices and Circuits	4
	Select from Restricted Electives	6-8
	TOTAL UNITS FOR THE MAJOR:	**18-20**
Restricted Electives		
ET 118 *	Electronic Communication Systems	4
ET 200 *	Digital Signal Processing and Microcontrollers	4
ET 201	Robotics Fundamentals	2
ET 202 *	Intermediate Robotics	2

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

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

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
CWE 180	Co-Op-Ed Electronic Technology	1
CWE 180	Co-Op-Ed Electronic Technology	2

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

Industrial Automation Fundamentals
Certificate of Achievement

The Industrial Automation Fundamentals Certificate of Achievement trains workers for entry-level employment and provides skill upgrading for existing workers in companies related to Industrial Automation. Typical jobs include: Automation Control Specialist/Technician, Motion Control Specialist/Technician, Industrial Control Specialist/Technician, Electrical and/or Electronics Engineering Technician, ElectroMechanical Technician, Industrial Engineering Technician, and Mechanical Engineering Technician. Major topics include: electronics fundamentals, microcontroller programming and interfacing, robotics fundamentals (theory, construction, and programming), modern manufacturing processes and techniques, and basics of Computer Numerical Control (CNC) programming.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate knowledge of common electronic components, circuits, and test equipment: identify, describe, and determine the performance of common electronic components and circuits and properly use electronics test equipment to measure the performance.
- Demonstrate knowledge of common microcontrollers, software for programming them, and hardware interfacing with sensors: program a microcontroller to acquire information from sensors, perform analysis, and properly control an electronic circuit or system.
- Demonstrate knowledge of common industrial robots, including their hardware, software, and sensors: program a robot to perform specified tasks and respond properly to position and environmental sensors.
- Demonstrate knowledge of how common materials are used in modern manufacturing: identify and describe the processing steps for metals, plastics, composites, and other common materials.
- Demonstrate knowledge of the major steps in Computer Numerical Control (CNC) programming: identify and describe CNC milling, programming, cycles, and completion of the production run.

REQUIRED CORE:

Course ID	Title	Units
ET 133	DC and AC Fundamentals	4
ET 200 *	Digital Signal Processing and Microcontrollers	4
ET 114 *	Digital Electronic Circuits	4
ET 201	Robotics Fundamentals	2
MFG 203	Introduction to Manufacturing Processes	2
MFG 207	CNC Computer Numerical Control Programming I	3
	TOTAL UNITS FOR THE CERTIFICATE:	**19**

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

Emergency Medical Technician

Emergency Medical Technician
Occupational Skills Award

The Emergency Medical Technician Occupational Skills Award 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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Cognitive Students who complete this program will be able to demonstrate proficiency in the cognitive aspects of prehospital emergency medical care as specified in the National Emergency Medical Services Education Standards.
- Psychomotor Students who complete this program will be able to demonstrate proficiency in the psychomotor aspects of prehospital emergency medical care as specified in the National Emergency Medical Services Education Standards.
- Affective Students who complete this program will be able to demonstrate proficiency in the affective aspects of prehospital emergency medical care as specified in the National Emergency Medical Services Education Standards.

REQUIRED CORE:

Course ID	Title	Units
EMT 207 *	Emergency Medical Technician Procedures	11
EMT 207C *	Emergency Medical Technician Clinical Observation	1
	TOTAL UNITS FOR THE AWARD:	**12**

Engineering

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.

REQUIRED CORE COURSES:

Course ID	Title	Units
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
PHYS 4A *	General Physics	5
MATH 3B *	Analytic Geometry and Calculus	5
PHYS 4B *	General Physics	5
ENGR 31 *	Statics	3
	TOTAL UNITS FOR THE MAJOR:	**23**

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.

English

English
Associate in Arts for Transfer

English curriculum provides the transfer student the opportunity to earn an Associate in Arts in English for Transfer degree that will allow completion of both general education requirements and major preparatory course work. In addition, the selection of courses ensures the English major a broad perspective on the history of literature, coupled with the necessary writing, thinking, and research training essential for academic achievement. Students who complete the Associate in Arts Degree in English for Transfer receive priority admission to the California State University system, though admission to a specific campus is not guaranteed. While an associate degree may support attempts to gain entry-level employment or promotion, a baccalaureate or higher degree is recommended for those considering professional careers, which can be achieved through transfer.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Demonstrate writing fluency, critical thinking ability, and research skills. These skills will include grammar review, as well as expository and persuasive writing instruction.
- Use skill and creativity along with critical judgment of literary forms, as they compose their own nonfiction, short stories, novels, poems, plays, and screenplays.
- Examine traditional literary themes and genres in courses addressing American, British and World literature. Students will explore contemporary themes and genres in courses such as Introduction to the Novel, Ethnic Voices in Literature, and The Film as Literature. The broad spectrum of literature courses allows students to focus on a particular area of interest.

REQUIRED COURSES:

Course ID	Title	Units
ENG 1B * *or*	Principles of Composition II	3
ENG 1BH * *or*	Honors Principles of Composition II	3
ENG 70 *	Reasoning and College Reading	3
ENG 25 *	Introduction to Literature	3
List A: Select two (6 units)		
ENG 15A *	Survey of American Literature - 1620-1860	3
ENG 15B *	Survey of American Literature - 1860-Contemporary	3
ENG 17A *	Survey of English Literature - Beowulf to Romantic Movement	3
ENG 17B *	Survey of English Lit - Romantic Movement to the Present	3
ENG 21A *	World Literature - Ancient to 17th Century	3
ENG 21B *	World Literature - 17th Century to Modern Period	3
List B: Any List A course not already used *OR*		
ENG 3 *	Introduction to Creative Writing	3
List C: Select one (3 units)		

Course ID	Title	Units
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
SPAN 1 * *or*	Elementary Spanish	5
SPAN 1H *	Honors Elementary Spanish	5
SPAN 2 * *or*	Elementary Spanish	5
SPAN 2H *	Honors Elementary Spanish	5
SPAN 3 *	Intermediate Spanish	5
JRN 2 *	News Writing	3
BUS 104 *	Business Communication	3
COMM 30	Introduction to Oral Interpretation	3
TA 20	Theatre Appreciation	3
ANTH 3	Culture and Language	3
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.		
TOTAL UNITS FOR THE MAJOR:		**18-20**

Creative Writing
Associate of Arts

The Creative Writing 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 can be attained in majors related to this field, earning the Associate degree would enable students to develop skill and creativity along with critical judgment of literary forms as they compose their own nonfiction, short stories, novels, poems, and plays in Saddleback's creative writing courses. Students earning the Creative Writing Associate of Arts degree may transfer into degree programs such as: Creative Writing, English, English Literature, and English Education.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate the professional habits of creative writers: revision, workshopping, and submission for publication
- Use techniques from more than one genre in order to craft a variety of creative writing pieces
- Consider the role that current and historical context plays in the creation and interpretation of literary works
- Read, analyze, interpret, and produce texts in a variety of genres

REQUIRED CORE

Course ID	Title	Units
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
ENG 25 * *or*	Introduction to Literature	3
ENG 25H *	Honors Introduction to Literature	3
ENG 3 *	Introduction to Creative Writing	3
ENG 17A * *or*	Survey of English Literature – Beowulf To Romantic Movement	3
ENG 17B *	Survey of English Lit – Romantic Movement to the Present	3
Restricted Electives:		
Area 1: (Select 6 units)		
ENG 4 *	Fiction Fundamentals	3
ENG 6 *	Introduction to Creative Nonfiction	3
ENG 9 *	Introduction to Writing Poetry	3
Area 2: (Select 6 units)		
ENG 15A *	Survey of American Literature – 1620-1860	3
ENG 15B *	Survey of American Literature – 1860 - Contemporary	3
ENG 18 *	Shakespeare - The Tragedies	3
ENG 21A *	World Literature – Ancient to 17th Century	3
ENG 21B *	World Literature – 17th Century to Modern Period	3

Course ID	Title	Units
ENG 22 * or	Introduction to Shakespeare	3
ENG 22H *	Honors Introduction to Shakespeare	3
ENG 24 *	Ethnic Voices in Literature - The American Experience	3
ENG 27A * or	Introduction to the Novel	3
ENG 27AH *	Honors Introduction to the Novel	3
ENG 44 *	Classical Mythology	3
ENG 52 *	The Film as Literature	3
ENG 142 *	Children's Literature	3
ENG 107 *	Writing the Fiction and/or Nonfiction Book	3
ENG 160 *	Literary Magazine	3
	TOTAL UNITS FOR THE MAJOR:	**25**

*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.

English Literature
Associate of 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. Students earning the English Literature Associate of Arts degree may transfer into degree programs such as: English, English Literature, and English Education.

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. Students will explore contemporary themes and genres in courses such as Introduction to the Novel, Ethnic Voices in Literature, and The Film as Literature. The broad spectrum of literature courses allows students to focus on a particular area of interest.

Course ID	Title	Units
ENG 1A * or	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
ENG 1B * or	Principles of Composition II	3
ENG 1BH * or	Honors Principles of Composition II	3
ENG 70 *	Critical Thinking, Reading, and Writing	3
	Select from Restricted Electives	12
	TOTAL UNITS FOR THE MAJOR:	**19**
Restricted Electives:		
ENG 15A *	Survey of American Literature - 1620-1860	3
ENG 15B *	Survey of American Literature - 1860-Contemporary	3
ENG 17A *	Survey of English Literature - Beowulf to Romantic Movement	3
ENG 17B *	Survey of English Lit Romantic Movement to the Present	3
ENG 18 *	Shakespeare - The Tragedies	3
ENG 21A *	World Literature - Ancient to 17th Century to Modern Period	3

Course ID	Title	Units
ENG 21B *	World Literature – 17th Century to Modern Period	3
ENG 22 * *or*	Introduction to Shakespeare	3
ENG 22H *	Honors Introduction to Shakespeare	3
ENG 27A * *or*	Introduction to the Novel	3
ENG 27AH *	Honors Introduction to the Novel	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.

Environmental Science

Environmental Science
Associate in Science for Transfer

Environmental Science is an interdisciplinary course of study that draws on science, economics, and mathematics to produce an understanding of the complex interactions between humans and the environment. The Associate in Science in Environmental Science for Transfer Degree provides students with a core curriculum to develop key skills for applying biological, physical, and chemical scientific principles to the study of the environment. Students will also develop skills for critical/analytical thinking and problem-solving that are needed to develop solutions to environmental problems at the local, national, and global level.

Students who complete the Associate in Science in Environmental Science for Transfer Degree receive priority admission to the California State University system, although admission to a specific campus is not guaranteed.

The Associate in Science in Environmental Science for Transfer Degree prepares students to transfer to a 4-year university for further study to prepare for a wide variety of careers. Environmental scientists typically use their knowledge and skills to protect the environment and human health. They may clean up polluted areas, advise policymakers, or work with government and industry to reduce waste and improve environmental conditions. Other career possibilities are academia, environmental law, environmental consulting, biodiversity conservation, and resource management.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate knowledge of the physical, biological, ecological, and social sciences required to effectively address current environmental issues and be prepared to pursue further study in an environmental science program at the baccalaureate level.
- 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.
- Critically evaluate strategies for sustainable management of environmental systems and for the remediation or restoration of degraded environments and human health protection.

Graduation Requirements:
To earn the Associate in Science in Environmental Science 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 a grade of "C" (or "P" Pass) or better; and
- Completion of the California State University General Education or Intersegmental General Education Transfer Curriculum for Science, Technology, Engineering, and Mathematics (CSU GE[1] or IGETC for STEM[2]) pattern

Required Core: Select 1 of 2 options (13-14 units)

Course ID	Title	Units
Option 1		
BIO 4A *	Principles of Cellular Biology	4
BIO 4B *	Principles of Organismal Biology	4
CHEM 1A *	General Chemistry	5
OR		
Option 2		
BIO 4A *	Principles of Cellular Biology	4

Course ID	Title	Units
CHEM 1A *	General Chemistry	5
CHEM 1B *	General Chemistry	5
List A: Complete 15 units from the following		
ENV 1	Introduction to Environmental Studies	3
GEOL 1 *or*	Introduction to Physical Geology	4
GEOG 1 *and*	Physical Geography	3
GEOG 1L *	Physical Geography Laboratory	1
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH * *or*	Honors Analytic Geometry and Calculus	5
MATH 11 *	A Brief Course in Calculus	5
List B: Complete 13 units from the following		
ECON 4 * *or*	Principles (Micro)	3
ECON 4H *	Honors Principles of Microeconomics	3
PHYS 4A * *and*	General Physics	5
PHYS 4B * *or*	General Physics	5
PHYS 2A * *and*	Introduction to Physics	5
PHYS 2B *	Introduction to Physics	5
	TOTAL UNITS FOR THE MAJOR:	**41-42**

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

[1] CSU GE for STEM is only an option for students earning AS-T degrees in Environmental Science. CSU GE for STEM certification requires the following courses before transfer:
- all courses in Area A, B, and E of the traditional CSU GE;
- two courses in Area C – one course in Area C1 and one course in Area C2;
- two courses in Area D from two different disciplines.

The following deferred courses must be completed after transfer:
- one remaining lower-division general education course in Area C
- one remaining lower-division general education course in Area D

[2] IGETC for STEM is only an option for students earning AS-T degrees in Biology for Transfer, Chemistry for Transfer, and/or Environmental Science 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.

Environmental Studies

Environmental Studies
Associate of 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 CORE:

Course ID	Title	Units
ENV 1	Introduction to Environmental Studies	3
ENV 18	Introduction to Ecology	4
CHEM 3 *	Fundamental Chemistry	4
ENG 1A * or	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
ENG 1B * or	Principles of Composition II	3
ENG 1BH * or	Honors Principles of Composition II	3
ENG 70 *	Critical Thinking, Reading, and Writing	3
MATH 10 *	Introduction to Statistics	3
	Select from Restricted Electives	9-12
	TOTAL UNITS FOR THE MAJOR:	**30-33**

Restricted Electives

Course ID	Title	Units
ENV 5	Biodiversity Conservation	3
ENV 6 *	Scarcity and Environment	3
ENV 16	Environmental Disasters	3
ENV 23 or	Environmental Geology	4
GEOL 23	Environmental Geology	4
ENV 24	Natural History of California	4
ENV 25	Environmental Hazards to Health	3
ENV 30	Alternative Energy Technologies	3
ENV 37	Environmental Ethics	3
ENV 40	Environmental Law and Policy	3
ENV 105 *	Environmental Studies Internship	2
ENV 106	Natural Resource Conservation	3
ENV 123	Water and Soil Conservation	3
ENV 38	Water Quality and Monitoring	3
ENV 141	Water Resources and Management	4
CWE 180 or	Co-Op-Ed Environmental Monitoring and Assessment	1
CWE 180	Co-Op-Ed Environmental Monitoring and Assessment	2
GEOG 110 or	Introduction to Geographic Information Systems (GIS)	2
GIS 110	Introduction to Geographic Information Systems (GIS)	2

*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.

Ecological Restoration
Certificate of Achievement

The Ecological Restoration Certificate prepares students to use basic and applied ecological concepts to reclaim and/or restore natural processes and functions to disturbed ecosystems. As the only available technical certificate in Ecological Restoration in Southern California, the program emphasizes application of restoration techniques to monitor, assess, preserve, and restore ecosystems while providing students a solid foundation in local natural history, ecological concepts, ecological disturbances, and an understanding of natural resource management policy.

Students completing the certificate will be prepared to pursue professional opportunities such as restoration ecologist, environmental restoration planner, field technician, or similar with organizations including government (US Forest Service, National Park Service, California State Parks), corporate (ecological/environmental consulting firms), and non-profit (nature centers, community-based restoration, land trusts and conservancies).

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 CORE:

Course ID	Title	Units
ECOL 201	Ecological Restoration Techniques	4
ECOL 202	Advanced Ecological Restoration Techniques	4
ENV 1	Introduction to Environmental Studies	3
ENV 18	Introduction to Ecology	4
	Select 4 Courses from Restricted Electives	7-13
	TOTAL UNITS FOR THE CERTIFICATE:	**22-28**
Restricted Electives		
ENV 24	Natural History of California	4
ENV 37	Environmental Ethics	3
ENV 40	Environmental Law and Policy	3
ENV 105 *	Environmental Studies Internship	2
ENV 123	Water and Soil Conservation	3
GEOG 110 *or*	Introduction to Geographic Information Systems (GIS)	2
GIS 110	Introduction to Geographic Information Systems (GIS)	2
HORT 113	Soils and Fertilizers	3
HORT 116	Irrigation Design Fundamentals	3
HORT 166	Native Plants in the Urban Landscape	2
CWE 180 *or*	Co-Op-Ed Ecological Restoration	1
CWE 180	Co-Op-Ed Ecological Restoration	2

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

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

Course ID	Title	Units
ENV 1	Introduction to Environmental Studies	3
ENV 6 * *or*	Scarcity and Environment	3
ENV 37	Environmental Ethics	3
ENV 202	Green Living	2
	Select from Restricted Electives	6
	TOTAL UNITS FOR THE AWARD	**14**
Restricted Electives		
ENV 30	Alternative Energy Technologies	3
ENV 106	Natural Resource Conservation	3
ENV 123	Water and Soil Conservation	3

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

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 CORE

Course ID	Title	Units
ENV 1	Introduction to Environmental Studies	3
ENV 6 *	Scarcity and Environment	3
ENV 40	Environmental Law and Policy	3
ENV 105 *	Environmental Studies Internship	2
ENV 123	Water and Soil Conservation	3
ENV 38	Water Quality and Monitoring	3
ENV 141	Water Resources and Management	4
CWE 180	Co-Op-Ed Environmental Monitoring and Assessment	1
	TOTAL UNITS FOR THE CERTIFICATE	**22**

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

Family and Consumer Sciences

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 one course from Restricted Electives	3
TOTAL UNITS FOR THE MAJOR:		**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 and Controversies	3
FN 120 *	Sustainable Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	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.

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 one course from Restricted Electives	3
	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 and Controversies	3
FN 120 *	Sustainable Meals	3
FN 160	Nutrition, Weight Management, and Eating Disorders	3

*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.

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 provides students with instruction and practice in design skills, product development, technical skills, sourcing materials, and manufacturing the final goods. Students will experience designing a line from initial concept to final creation. Students have the option of taking a

course to prepare for the Apparel Information Management System (AIMS) exam and will receive certification upon passing of exam.

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, milliner, handbag designer, small leather goods designer, technical designer for accessories, accessory product developer, sourcing and manufacturer of accessories.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Produce a professional portfolio showcasing accessory design and construction skills.
- Develop a line of accessories tracing process from initial product concept to final sample product.
- Create a manufacturing plan complete with: sourcing product, product specification sheets, and final cost analysis.
- Design and execute footwear or millinery projects developing skills and knowledge of their unique manufacturing process.
- Utilize current industry technology available to develop and market product.

REQUIRED CORE:

Course ID	Title	Units
FASH 100	Sewing for Fashion Design I	3
FASH 217 *or*	Footwear Design and Construction	2
FASH 223	Millinery Design	3
FASH 240	Dye Processes on Fabrics	3
FASH 155 *« or*	The Digital Fashion Image	2
FASH 204 « *and*	Understanding Apparel Principles-AIMS Certification	1
FASH 225 «	Apparel Cart - Fashion Retailing Online with Easy Cart Shop	1
FASH 224	Accessory Design	3
	TOTAL UNITS FOR THE AWARD:	**13-14**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
« Take FASH 155 or both FASH 204 and FASH 225

Advanced Fashion Design and Apparel Manufacturing
Certificate of Achievement

The Advanced Fashion Design and Apparel Manufacturing certificate prepares Fashion Design students to enter the field of fashion design and apparel manufacturing. It explores the fashion industry and apparel line development from concept to creation. Coursework provides opportunities for students to develop skills further in industrial sewing and advanced garment construction with courses featuring advanced sewing, couture sewing, tailoring, advanced/CAD pattern making, and advanced draping. Additionally, this program provides students with the skills necessary to develop their own line of clothing with courses in apparel design, designing for the fashion industry, Illustrator, and Photoshop. Students will explore textiles, sourcing, spec sheets and pricing. Students will be encouraged to push their creativity and entrepreneurship. All Fashion Design majors will complete an industry internship, create an industry resume/portfolio and tour major fashion companies in the southern CA area. All students will have the opportunity to participate and show their work in the annual fashion show. Students who complete the Fashion Design program and then complete this advanced program will not only be able to design clothing but will also be able to participate in many of the manufacturing processes. They will be prepared for entry level positions in occupations that include: Assistant Fashion Designer, Design Room Assistant, Advanced Sewing Machine Operator, Sourcing Specialist, Tailor, Dressmaker, Custom Sewer, Fabric and Apparel Patternmaker, CAD Patternmaker, Alteration and Fitting Specialist, Technical Designer, and Fashion Entrepreneur.

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.
- Design a line of clothing from concept to creation with constructed samples and manufacturing plan.

REQUIRED CORE:

Course ID	Title	Units
FASH 31	Textiles	3
FASH 101	Introduction to Fashion Careers	3

Course ID	Title	Units
FASH 111 *	Sewing for Fashion Design II	3
FASH 112 * *or*	Fashion Sewing--Advanced	3
FASH 211 * *or*	Advanced Dressmaking and Custom Sewing	3
FASH 120 *	Tailoring	3
FASH 113 *	Couture Sewing	2
FASH 124 * *or*	Wearable Art	3
FASH 240 *or*	Dye Processes on Fabrics	3
FASH 205 *	Corset Construction	3
FASH 130 *	Flat Pattern Design	4
FASH 132 *	Draping Fashion Designs	3
FASH 136 * *or*	Apparel Design	3
FASH 251 * *or*	Designing for a Cause and Sustainable Fashion	3
FASH 224	Accessory Design	3
FASH 141 *or*	Apparel Selection	3
FASH 230	Alterations and Fitting	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 145 * § *and*	Internship	1
CWE 180 * †	Co-op-Ed Fashion	1
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 247 *or*	Special Events Participation	1
FASH 254	Fashion in Southern California	1
FASH 234 * *or*	Advanced Pattern and Design Techniques	2
FASH 238 * *or*	Advanced Draping and Fashion Design	2
FASH 131 *	CAD Patternmaking with Tukatech	3
FASH 235 *	Designing for the Fashion Industry	2
FASH 155 *« *or*	The Digital Fashion Image	2
FASH 204 « *and*	Understanding Apparel Principles-AIMS Certification	1
FASH 225 «	Apparel Cart - Fashion Retailing Online with Easy Cart Shop	1
	Select two courses from Restricted Electives	2
	TOTAL UNITS FOR THE CERTIFICATE:	**50-51**
Restricted Electives (2 Units):		
FASH 212	Construction Lab	1
FASH 213 *	Designer's Lab	1
FASH 214 *	Couture Lab	1
FASH 216	Costumer's Lab	1
FASH 219	Dressmaking Lab	1
FASH 220 *	Tailor's Lab	1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180.
«Take FASH 155 OR both FASH 204 and FASH 225.

Basic Costume Construction and Sourcing
Occupational Skills Award

The Basic Costume Construction and Sourcing Occupational Skills Award prepares students with the basic skills necessary to assist Costume Designers. Students will learn to source and construct costumes for costume designers working in the areas of: film, television, dance, theater, theme parks, special events, cultural and ethnic events, costume shops, e-commerce, uniform/sports, advertising, Cosplay, Anime and Pop Culture conventions. Coursework covers material sourcing, costume, and underpinning construction for a range of audiences, costume history, textiles and dyeing, draping, pattern making, and drafting.

After completion of the skills award, students will be eligible for a position in the following areas: assistant costume designer, costume stitcher, costume shop assistant, costume sourcing specialist, costume dresser, costume alterationist, costume pattern maker, costume accessory designer, costume underpinnings and corsetry construction, costume dyeing and distressing, and millinery and shoe construction for contemporary and historical costumes.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Produce a professional portfolio showcasing costume sourcing and construction skills.
- Create costumes for a variety of venues that address specific needs of the end user: producer, actor, and customer and their performance environment.
- Identify historical costume characteristics and translate important period trends into costumes for a variety of audiences and price points.
- Identify textiles and demonstrate knowledge of their performance characteristics for an intended end use.
- Select and match textiles with correct dye type, process, and finish to create textile effects for costumes.

REQUIRED CORE:

Course ID	Title	Units
Select One of the following course (3 units)		
FASH 100	Sewing for Fashion Design I	3
FASH 208 *	Sewing Vintage Fashions	3
FASH 206 *	Designing & Constructing Knitwear, Activewear, Swimwear	3
FASH 230 *	Alterations and Fitting	3
FASH 205 *	Corset Construction	3
Select one of the following 3 unit options:		
FASH 217 *and*	Footwear Design and Construction	2
FASH 216 *or*	Costumer's Lab	1
FASH 217 *and*	Footwear Design and Construction	2
FASH 220 * *or*	Tailor's Lab	1
FASH 223	Millinery Design	3
Complete 9 units from the following courses:		
FASH 31 *or*	Textiles	3
FASH 240	Dye Processes on Fabrics	3
FASH 132 *	Draping Fashion Designs	3
FASH 144 *or*	Fashion Trends and Cultural Costumes	3
ETT 42	Costume Design	3
TOTAL UNITS FOR THE AWARD:		**15**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Select one of the following options: 1) FASH 217 and FASH 216, 2) FASH 217 and 220, or 3) FASH 223

Fashion Design
Associate of Science

The Fashion Design Associate of Science degree provides students with the comprehensive academic foundation necessary to pursue a career in fashion design. Coursework provides opportunities for students to develop skills in industrial sewing and garment construction, pattern making, draping, fashion illustration, product development, elements of design, fashion history, textiles, CAD design, and careers within the apparel and textile industry. Students who complete this program will be prepared for entry-level positions in fashion design. Possible occupations include: Assistant Fashion Designer, Design Room Assistant, Sewing Machine Operator, Tailor, Dressmaker, Custom Sewer, and Fabric and Apparel Patternmaker.

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 111 *	Sewing for Fashion Design II	3
FASH 112 * or	Fashion Sewing--Advanced	3
FASH 124 * or	Wearable Art	3
FASH 211 *	Advanced Dressmaking and Custom Sewing	3
FASH 130 *	Flat Pattern Design	4
FASH 132 *	Draping Fashion Designs	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 145 * § and	Internship	1
CWE 180 *†	Co-Op-Ed Fashion	1
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 207 or	Eco-Friendly Fashion Tour	1
FASH 218 or	New York Study Tour	2
FASH 247 or	Special Events Participation	1
FASH 254	Fashion in Southern California	1
FASH 155 * « or	The Digital Fashion Image	2
FASH 204 « and	Understanding Apparel Principles-AIMS Certification	1
FASH 225 «	Apparel Cart - Fashion Retailing Online with Easy Cart Shop	1
TOTAL UNITS FOR THE MAJOR:		**36-37**

*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 155 OR both FASH 204 and FASH 225

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.

Suggested coursework not required for the major: BUS 136, BUS 138, BUS 160; ETT 42; FCS 115; FASH 120*, FASH 147, FASH 230*, FASH 235*.

Fashion Design
Certificate of Achievement

The Fashion Design certificate provides students with the comprehensive academic foundation necessary to pursue a career in fashion design. Coursework provides opportunities for students to develop skills in industrial sewing and garment construction, pattern making, draping, fashion illustration, product development, elements of design, fashion history, textiles, CAD design, and careers within the apparel and textile industry. All Fashion Design students are required to complete an industry internship, create an industry resume/portfolio and tour major fashion companies in the southern California area. Additionally, all students will have the opportunity to participate and show their work in the annual fashion show. This certificate is designed for students looking to obtain the necessary skills for immediate entry into the workforce in the area of fashion design. Possible occupations include: Assistant Fashion Designer, Design Room Assistant, Sewing Machine Operator, Tailor, Dressmaker, Custom Sewer, and Fabric and Apparel Patternmakers. Also, this certificate provides the foundation for the Advanced Fashion Design and Apparel Manufacturing certificate.

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 111 *	Sewing for Fashion Design II	3
FASH 112 * or	Fashion Sewing--Advanced	3
FASH 124 * or	Wearable Art	3
FASH 211 *	Advanced Dressmaking and Custom Sewing	3
FASH 130 *	Flat Pattern Design	4
FASH 132*	Draping Fashion Designs	3
FASH 141	Apparel Selection	3
FASH 144	Fashion Trends and Cultural Costumer	3
FASH 145* § and	Internship	1
CWE 180 * †	Co-Op-Ed Fashion	1
FASH 150	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
FASH 207 or	Eco-Friendly Fashion Tour	1
FASH 218 or	New York Study Tour	2
FASH 247 or	Special Events Participation	1
FASH 254	Fashion in Southern California	1
FASH 155 * « or	The Digital Fashion Image	2
FASH 204 « and	Understanding Apparel Principles-AIMS Certification	1
FASH 225 «	Apparel Cart - Fashion Retailing Online with Easy Cart Shop	1
TOTAL UNITS FOR THE CERTIFICATE:		**36-37**

*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 155 OR both FASH 204 and FASH 225.

Fashion Technology
Occupational Skills Award

The Fashion Technology Occupational Skills Award prepares students with skills and experience in the latest fashion technologies. Students will gain competencies in the following areas: Tukatech CAD pattern making and grading, digital illustration with programs such as Adobe Illustrator and Photoshop and online retail platforms such as Shopify and Apparel Cart, creation of specification sheets with Excel and Illustrator, and professional certification in Apparel Information Management Systems (AIMS). 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: assistant designers, technical designers, textile surface designers, fashion web store designers, fashion entrepreneurs, product developers, apparel information managers, pattern makers, pattern graders, pattern marker makers, fashion CAD designers, fashion buyers, technology trainers for the fashion industry, and fashion merchandisers.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Produce a professional portfolio showcasing their skills related to fashion technology. 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 related to fashion technology. This will increase job opportunities in the field as well as promotion for those already employed.

REQUIRED CORE:

Course ID	Title	Units
FASH 130 *	Flat Pattern Design	4
FASH 131 *	CAD Patternmaking with Tukatech	3
FASH 204	Understanding Apparel Principles-AIMS Certification	1
FASH 225	Apparel Cart - Fashion Retailing Online with Easy Cart Shop	1
FASH 155 *	The Digital Fashion Image	2
FASH 254 *or*	Fashion in Southern California	1
FASH 207	Eco-Friendly Fashion Tour	1
FASH 145 *§ *and*	Internship	1
CWE 180 *†	Co-Op-Ed Fashion	1
	TOTAL UNITS FOR THE AWARD:	**14**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180 *

Sustainable Fashion and Social Entrepreneurship
Occupational Skills Award

The Sustainable Fashion and Social Entrepreneurship Occupational Skills Award prepares students with basic skills necessary to develop, design, source, and manufacture a socially and environmentally friendly line of clothing or accessories. Coursework covers developing a line and designing for a cause, ethics of fashion, sourcing and manufacturing in an environmentally and socially responsible way as well as marketing the line. Students will complete an internship and tour eco-friendly fashion industry leaders' businesses.

After completion of the skills award students will be eligible for a position in the following areas: assistant fashion designer, assistant fashion designer of sustainable fashion, product developer for sustainable fashion, sourcing and manufacturer for sustainable fashion.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Produce a professional portfolio showcasing sustainable sourcing and construction skills.
- Develop an environmentally conscious apparel or accessory line from concept to creation.
- Create a sustainable manufacturing plan complete with sourcing for product, specification sheets, and cost analysis.
- Explore environmental and social impact, current and traditional manufacturing processes in fashion and textiles, and identify alternative solutions for sustainability.
- Successfully complete an environmentally and socially responsible industry internship in fashion.

REQUIRED CORE

Course ID	Title	Units
FASH 31	Textiles	3
FASH 132 *	Draping Fashion Designs	3
FASH 136 * *or*	Apparel Design	3
FASH 251 *	Designing for a Cause and Sustainable Fashion	3
FASH 240	Dye Processes on Fabrics	3
FASH 145 *§ *and*	Internship	1
CWE 180 *†	Co-Op-Ed Fashion	1
FASH 207 or	Eco-Friendly Fashion Tour	1
FASH 254	Fashion in Southern California	1
TOTAL UNITS FOR THE AWARD		**15**

* Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
† Recommended to be taken in last semester of program.
§ Must be taken concurrently with CWE 180*

Fashion Merchandising

The Fashion Merchandising program is designed to prepare professionally- trained individuals for the fashion industry. The program places emphasis on developing the fashion sense and the unique creativity of each student. The curriculum offers a comprehensive analysis of such subject areas as the manufacture, distribution, buying, and merchandising of fashion apparel.

The Fashion Merchandising program includes two certificates: Fashion Merchandising and Visual Fashion Merchandising.

Fashion 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
FASH 140	Fashion Image	3
FASH 144	Fashion Trends and Cultural Costumes	3
FASH 147	Special Events Coordination and Promotion	3
FASH 148	Visual Merchandising	3
FASH 154	Fashion Illustration	3
	Select from Restricted Electives	1.5-3
TOTAL UNITS FOR THE MAJOR:		**22.5-24**
Restricted Electives		
ARTH 100	Art Gallery Display and Exhibition	3

Course ID	Title	Units
CWE 180 *† *and*	Co-Op-Ed Fashion	1
FASH 145 * §	Internship	1
FASH 155 *	The Digital Fashion Image	2
FASH 250	Fashion Trend Forecasting	1.5
ID 114	Applied Color and Design Theory for Interior Design	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.

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 *or*	Fashion Image	3
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 *§ *and*	Internship	1
CWE 180 *†	Co-Op-Ed Fashion	1
	Select one course from each Group	8
	TOTAL UNITS FOR THE MAJOR:	**38**
Group 1		

Course ID	Title	Units
BUS 105	Social Media Marketing	3
BUS 109	E-Commerce Marketing	3
BUS 160	Entrepreneurship	3
Group 2		
FASH 155 *« *or*	The Digital Fashion Image	2
FASH 204 « *and*	Understanding Apparel Principles-AIMS Certification	1
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

*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 155 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.

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 *or*	Fashion Image	3
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

Course ID	Title	Units
FASH 254	Fashion in Southern California	1
FASH 145 *§ *and*	Internship	1
CWE 180 *†	Co-Op-Ed Fashion	1
	Select one course from each Group	8
	TOTAL UNITS FOR THE CERTIFICATE:	**38**
Group 1		
BUS 105	Social Media Marketing	3
BUS 109	E-Commerce Marketing	3
BUS 160	Entrepreneurship	3
Group 2		
FASH 155 *« *or*	The Digital Fashion Image	2
FASH 204 « *and*	Understanding Apparel Principles-AIMS Certification	1
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

*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 155 OR both FASH 204 and FASH 225.

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Event Planner
Occupational Skills Award

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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 produce 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.

After completion of the skills award, students will be eligible for a position in the following areas: fashion event planner, assistant event planner, fashion show event planner, assistant event coordinator, and assistant event manager.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Produce a special event which will include: selecting the venue, theme, stage, promotions, music, lighting, merchandise, hospitality and staying within a given budget.
- Create a professional portfolio depicting their produced event while highlighting all of the necessary skills to become a successful event planner. Skills include: budgeting, logistics, promotion, communication, scheduling, procurement and measuring the overall success of the event.
- Complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor.

REQUIRED CORE:

Course ID	Title	Units
BUS 160	Entrepreneurship	3
FASH 101	Introduction to Fashion Careers	3
FASH 147	Special Events Coordination and Promotion	3
FASH 148	Visual Merchandising	3
FASH 145 *§	Internship	1
CWE 180 *†	Co-Op-Ed Fashion	1
	TOTAL UNITS FOR THE AWARD:	**14**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180*.

Fashion Stylist
Occupational Skills Award

The Fashion Stylist Occupational Skills Award prepares the student with skills that are necessary to develop knowledge of fabrics, fit and trends to create a look that a client will display to the world. The student will use art, science, and psychology of dress to enhance their subjects and project an image. Coursework covers color, line, texture, principles of design, clothing quality and care, wardrobe planning and purchasing, dress codes, body types, face shapes, hair styles, and an internship in the field.

After completion of the skills award, students will be eligible for the following positions: Image consultant, assistant celebrity stylist, wardrobe stylist, personal shopper, editorial and lifestyle for print stylist, digital stylist, and runway stylist.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Produce a professional working wardrobe for a client by selecting garments and outfits that compliments their body type, clothing personality, color season, and face shape which will enhance the client's overall image.
- Create a professional portfolio depicting their completed working wardrobe for various clients. Skills include: determining clothing personalities, color seasons, budgeting, fit, proportion, knowledge of current brands and designers and understanding design elements and principles of clothing.
- Complete an industry internship including the completion of three individual goals/objectives as determined by themselves and an industry supervisor.

REQUIRED CORE:

Course ID	Title	Units
BUS 160	Entrepreneurship	3
FASH 140	Fashion Image	3
FASH 147	Special Events Coordination and Promotion	3
FASH 141	Apparel Selection	3
FASH 145 *§	Internship	1
CWE 180 *†	Co-Op-Ed Fashion	1
	TOTAL UNITS FOR THE AWARD:	**14**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
§Must be taken concurrently with CWE 180 *.

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 ecommerce, 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 CORE

Course ID	Title	Units
FASH 140 *or*	Fashion Image	3
FASH 143	Fashion Buying and Merchandising	3

Course ID	Title	Units
FASH 147	Special Events Coordination and Promotion	3
FASH 148	Visual Merchandising	3
FASH 150 *or*	Fashion Apparel and Professional Techniques	3
FASH 154	Fashion Illustration	3
CWE 180 *† *and*	CO-OP-ED-Fashion	1
FASH 145 * §	Internship	1
FASH 225 *or*	Apparel Cart - Fashion Retailing Online with Easy Cart Shop	1
FASH 250	Fashion Trend Forecasting	1.5
FASH 155 *	The Digital Fashion Image	2
ID 114	Applied Color and Design Theory for Interior Design	3
	Select one course from Restricted Electives	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.

Foods

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 ❖ o*r*	Sanitation and Safety	2
FN 210 ❖	ServSafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 110 *	Food Preparation Essentials	3
FN 101 *	Culinary Principles I	3
FN 241 *	Culinary Principles II	3
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.

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 ❖ *or*	Sanitation and Safety	2
FN 210❖	ServSafe in Food Production	1
FN 246 *	Introduction to Culinary Arts	3
FN 120 *	Sustainable Meals	3
FN 110 *	Food Preparation Essentials	3
FN 101 *	Culinary Principles I	3
FN 241 *	Culinary Principles II	3
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.

Hospitality Management
Associate in Science for Transfer

The Associate in Science in Hospitality Management for Transfer prepares individuals for transfer to CSU Hospitality Management Bachelor of Science programs. This program is dedicated to preparing students with the skills necessary to successfully transfer. The program offers comprehensive coursework that encompasses the diverse hospitality industry. Students will obtain skills in the operational and legal aspects of hospitality management and supervision, food and beverage operations, cost control, event and catering management, human resources, marketing, and support operations. Emphasis is on guest service strategies, ethical considerations, effective communication, critical thinking, leadership standards, and teamwork. The program combines classroom and laboratory instruction providing students with well-rounded preparation in the hospitality industry. Students completing the program will be prepared for a career in the hospitality industry as entry-level hotel, motel and restaurant managers, food and beverage managers, event, banquet and catering professionals, resort managers and human resource administrators.

Students who complete the Associate in Science in Hospitality Management 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 preparation for transfer to a four-year Hospitality Management program.
- Demonstrate preparation for entry level employment in the hospitality industry.
- Identify legal and ethical considerations affecting the hospitality industry.
- Demonstrate knowledge of and experience of operations relative to the provisions of goods and services in the hospitality business.
- Observe foundations of leadership, management and human resources.
- Apply knowledge of financial management related to operations in hospitality.
- Demonstrate effective written and interpersonal communication skills.
- Identify event and catering management requirements.

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 (3 units)

Course ID	Title	Units
FN 150	Introduction to Hospitality Management	3
List A: Select three courses (9 units)		
FN 154	Hospitality - Production and Cost Control	3
FN 176	Food and Beverage Operations	3
FN 157	Hospitality Law	3
FN 101 *	Culinary Principles I	3
List B: Complete two courses from the following or any course from List A not already used (6-7 units)		
ACCT 1A	Financial Accounting	4
FN 110 *	Food Preparation Essentials	3
	TOTAL UNITS FOR THE MAJOR:	**18-19**

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

Gender and Sexuality Studies

Gender and Sexuality
Associate of Arts

The curriculum in the Gender and Sexuality Studies Associate of Arts program is designed to provide the transfer student with a critical understanding of how gender and sexuality as socially constructed forms of identity, are rooted in belief structures, historical processes, political systems and social and economic institutions. The focus of academic inquiry is on how gender and sexuality 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. The program offers the opportunity to achieve an Associate of 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 factors such as 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.

REQUIRED COURSES:

Course ID	Title	Units
GSS 10 *or*	Introduction to Women's Studies	3
GSS 10H *and*	Honors Introduction to Women's Studies	3
GSS 15	Introduction to Queer Studies	3
	Select from Restricted Electives	12
	TOTAL UNITS FOR THE MAJOR:	**18**
Restricted Electives: Select four (4) courses		
ANTH 21	Women, Gender, and Culture - Cross-Cultural Perspectives	3
COMM 8	Gender Communication	3
CTVR 9	Women in Cinema and Television	3
GSS 11H	Honors Introduction to Feminist Theory	3
GSS 31	Gender and Popular Culture	3
GSS 120	Women and Careers	3
HIST 21	Women in United States History - A Multi-Cultural Perspective	3
HLTH 3	Women's Health Issues	3
PSYC 21	The Psychology of Women	3
SOC 21	Women in Contemporary Society	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.

General Ed/Studies

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. See www.assist.org for additional information.

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 Certificate (CSU-GE)
Completion of a minimum of 39 units including all the requirements of the California State University General Education Certification. SEE THE ARTCULATION/TRANSFER PATTERN SECTION OF THE CATALOG FOR A LIST OF SPECIFIC COURSE REQUIREMENTS.

REQUIRED CORE: 39 Units

Area A: English Language, Communication and Critical Thinking 9 semester units required.
Complete one course in Area A1, A2, and A3 with a grade of C or better

Course ID	Title	Units
A1 Oral Communication		
COMM 1 * *or*	Communication Fundamentals	3
COMM 1H *	Honors Communication Fundamentals	3
COMM 5	Interpersonal Communication	3
A2 Written Communication		
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
A3 Critical Thinking		
ENG 1B * *or*	Principles of Composition II	3
ENG 1BH *	Honors Principles of Composition II	3
ENG 70 *	Critical Thinking, Reading, and Writing	3
PHIL 12 *	Introduction to Logic	3
COMM 2 *	Persuasion	3
COMM 3 *	Argumentation and Debate	3

Area B: Scientific Inquiry and Quantitative Reasoning – 9 semester units required.
Complete one course from Area B1 and one course from Area B2. One course must have a laboratory. #denotes laboratory courses. Complete one Math course from Area B4 with a grade of "C" or better.

Course ID	Title	Units
B1 Physical Science		
ASTR 20	General Astronomy	3
ASTR 20 *and*	General Astronomy	3
ASTR 25 *#	Observational Astronomy	3
ASTR 21 *or*	The Solar System	3
GEOL 21	The Solar System	3
CHEM 1A *#	General Chemistry	5
CHEM 1B *#	General Chemistry	5
CHEM 3 *#	Fundamental Chemistry	4
CHEM 12A *#	Organic Chemistry	5
CHEM 12B *#	Organic Chemistry	5

Course ID	Title	Units
CHEM 108 #	Introduction to General, Organic, and Biochemistry	4
ENV 23 # or	Environmental Geology	4
GEOL 23 #	Environmental Geology	4
ENV 38	Water Quality and Monitoring	3
GEOG 1 *or*	Physical Geography	3
GEOG 1H	Honors Physical Geography	3
GEOG 1 *and*	Physical Geography	3
GEOG 1L *#	Physical Geography Laboratory	1
GEOL 1	Introduction to Physical Geology	4
GEOL 2 *#	Historical Geology	4
GEOL 3	Geology of California	3
GEOL 4	Natural Disasters	3
GEOL 7	Weather and Climate	3
GEOL 20 #	Introduction to Earth Science	4
GEOL 21 *or*	The Solar System	3
ASTR 21	The Solar System	3
GEOL 23 # *or*	Environmental Geology	4
ENV 23 #	Environmental Geology	4
MS 4 #	Southern California Coastal Ecology	4
MS 20 #	Introduction to Oceanography	4
PHYS 2A *#	Introduction to Physics	5
PHYS 2B *#	Introduction to Physics	5
PHYS 4A *#	General Physics	5
PHYS 4B *#	General Physics	5
PHYS 4C *#	General Physics	5
PHYS 20 #	The Ideas and Events of Physics	4
PHYS 30 *#	Physics and Chemistry For Elementary Educators	4
B2 Life Science		
ANTH 1 *or*	Biological Anthropology	3
ANTH 1H	Honors Biological Anthropology	3
ANTH 1 *and*	Biological Anthropology	3
ANTH 1L	Biological Anthropology Laboratory	1
BIO 3AH *#	Honors General Biology I	5
BIO 3BH *#	Honors General Biology II	5
BIO 3C *#	Biochemistry and Molecular Biology	5
BIO 4A *#	Principles of Cellular Biology	4
BIO 4B *#	Principles of Organismal Biology	4
BIO 11 *#	Human Anatomy	4
BIO 12 *#	Human Physiology	4
BIO 15 *#	General Microbiology	5
BIO 19 #	Marine Biology	4
BIO 20 #	Introduction to Biology	4
BIO 22 *	Human Genetics	3
BIO 28 *	Plants and Human Affairs	3
BIO 30 *	Human Biology	3
BIO 31 *#	Biology of Plants	4
BIO 40	Evolution	3

Course ID	Title	Units
BIO 43 *	Animal Behavior	3
BIO 113 #	Human Anatomy and Physiology	4
ENV 5	Biodiversity Conservation	3
ENV 18 #	Introduction to Ecology	4
ENV 24 #	Natural History of California	4
HORT 20 #	Introduction to Horticultural Science	4
PSYC 3 *	Biological Psychology	4
B3 Laboratory Activity – One science course MUST have a laboratory. # Denotes laboratory course		
B4 Mathematics/Quantitative Reasoning		
MATH 2 *	Pre-Calculus Mathematics	5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
MATH 3B *	Analytic Geometry and Calculus	5
MATH 3C *	Analytic Geometry and Calculus	5
MATH 7 *	College Algebra	5
MATH 8 *	College Algebra for Brief Calculus	5
MATH 10 *	Introduction to Statistics	3
MATH 11 *	A Brief Course in Calculus	5
MATH 14 *	Mathematics for Elementary School Teachers	4
MATH 24 *	Elementary Differential Equations	4
MATH 26 *	Introduction to Linear Algebra	4
MATH 30A *or*	Computer Discrete Mathematics I	3
CS 30A	Computer Discrete Mathematics I	3
MATH 30B *or*	Computer Discrete Mathematics II	3
CS 30B	Computer Discrete Mathematics II	3
MATH 103 *	Mathematical Ideas	3
MATH 124 *	Trigonometry	3
PSYC 44 *	Statistics for the Behavioral Sciences	3

Area C: Arts and Humanities 9 semester units required.

Complete one course from Area C1 and one course from Area C2. Complete a third course from either Area.

Course ID	Title	Units
C1 Arts		
ARCH 12	History of Architecture	3
ART 4	Fundamentals of Arts	3
ART 40	2-D Foundations	3
ART 41 *	Three-Dimensional Design	3
ART 42 *	Color Theory and Practice	3
ARTH 20	Art Appreciation	3
ARTH 21	Women and Art	3
ARTH 22	Survey of Asian Art (India, China, Japan, and Korea)	3
ARTH 23	African, Oceanic, and Ancient North American Art	3
ARTH 24	Indigenous Arts of the Americas	3
ARTH 25	Survey of Art History – Ancient Worlds to Gothic	3
ARTH 26 *	Survey of Western Art History – Renaissance to Contemporary	3
ARTH 27	History of American Art	3
ARTH 29	Introduction to World Art	3
ARTH 30	History of Modern Art 1825-1945	3

Course ID	Title	Units
ARTH 32	Survey of Contemporary Art	3
COMM 32	Interpreters' Theatre	3
CTVR 2	History and Appreciation of Television Broadcasting	3
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
DANC 64	History of Dance	3
DANC 74	Multicultural Dance History in the United States	3
FASH 144	Fashion Trends and Cultural Costumes	3
GD 1	History of Animation	3
GD 2	History of Graphic Design	3
HORT 115	History of Landscape Design	3
ID 110	Fundamentals of Interior Design	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3
MUS 1	The Basic of Music	3
MUS 20	Music Appreciation	3
MUS 23	Introduction to World Music	3
MUS 24	Music since 1900	3
MUS 27	History of Jazz	3
MUS 28	History of Rock	3
MUS 32 *	Singing Society	2
MUS 33 *	Masterworks Chorale	2
MUS 34 *	Early Music Ensemble	2
MUS 35 *	Contemporary Choir	2
MUS 47 *	Saddleback College Big Band	2
PHOT 25	History of Photography	3
TA 10	Musical Theatre Techniques	3
TA 11	Stage Movement	3
TA 20	Theatre Appreciation	3
TA 22	Musical Theatre History and Appreciation	3
TA 25	Theatre History – Primitive to Renaissance	3
C2 Humanities		
ARAB 1 *	Elementary Arabic	5
ARAB 2 *	Elementary Arabic	5
ARAB 3 *	Intermediate Arabic	5
ARAB 4 *	Intermediate Arabic	5
ARAB 10 *	Intermediate Conversational Arabic	3
ARAB 21	Introduction to Arabic Culture	3
CHI 1 *	Elementary Chinese	5
CHI 2 *	Elementary Chinese	5
CHI 3 *	Intermediate Chinese	5
CHI 4 *	Intermediate Chinese	5
CHI 21 *	Introduction to Chinese Culture and Influence in the U.S.	3
COMM 30	Introduction to Oral Interpretation	3
ENG 3 *	Introduction to Creative Writing	3

Course ID	Title	Units
ENG 4 *	Fiction Fundamentals	3
ENG 15A *	Survey of American Literature – 1620-1860	3
ENG 15B *	Survey of American Literature – 1860-Contemporary	3
ENG 17A *	Survey of English Literature – Beowulf to Romantic Movement	3
ENG 17B *	Survey of English Lit – Romantic Movement to the Present	3
ENG 18 *	Shakespeare – The Tragedies	3
ENG 21A *	World Literature – Ancient to 17th Century	3
ENG 21B *	World Literature – 17th Century to Modern Period	3
ENG 22 * or	Introduction to Shakespeare	3
ENG 22H *	Honors Introduction to Shakespeare	3
ENG 24 *	Ethnic Voices in Literature – The American Experience	3
ENG 25 * or	Introduction to Literature	3
ENG 25H *	Honors Introduction to Literature	3
ENG 27A * or	Introduction to the Novel	3
ENG 27AH *	Honors Introduction to the Novel	3
ENG 44 *	Classical Mythology	3
ENG 52 *	The Film as Literature	3
ENG 142 *	Children's Literature	3
FR 1 *	Elementary French	5
FR 2 *	Elementary French	5
FR 3 *	Intermediate French	5
FR 4 *	Intermediate French	5
FR 10 *	Intermediate Conversational French	3
FR 21 *	Introduction to French Language and Culture	3
GER 1 *	Elementary German	5
GER 2 *	Elementary German	5
GER 3 *	Intermediate German	5
GER 4 *	Intermediate German	5
GER 21 *	Introduction to German Culture	3
HEBR 1 *	Elementary Hebrew	5
HEBR 2 *	Elementary Hebrew	5
HIST 4	World History to 1500	3
HIST 5	World History since 1500	3
HIST 16 ‡	History of the United States to 1876	3
HIST 17 ‡	History of the United States since 1876	3
HON 11H *	Honors Culture, Science, Society – Renaissance	3
HON 12H *	Honors Culture, Science, Society – The Post-Modern World	3
HON 13H *	Honors Culture, Science, Society – Power, Resistance, Empire	3
HON 14H *	Honors Culture, Science, Society – Transformation of Empire	3
HON 15H *	Honors Culture, Science, Society – From Philosophy to Science	3
HON 16H *	Honors Culture, Science, Society – Natural And Social Science	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
HUM 21 *	The Search for Meaning – Ideas of Self Across Cultures	3
HUM 25 *	Planet Earth – Contemporary Issues and Controversies	3
ITA 1 *	Elementary Italian	5

Course ID	Title	Units
ITA 2 *	Elementary Italian	5
ITA 3 *	Intermediate Italian	5
ITA 4 *	Intermediate Italian	5
ITA 21 *	Introduction to Italian Culture	3
JA 1 *	Elementary Japanese	5
JA 2 *	Elementary Japanese	5
JA 3 *	Intermediate Japanese	5
JA 4 *	Intermediate Japanese	5
JA 21 *	Introduction to Japanese Culture	3
KOR 1 *	Elementary Korean	5
KOR 2 *	Elementary Korean	5
KOR 3 *	Intermediate Korean	5
KOR 4 *	Intermediate Korean	5
KOR 21 *	Introduction to Korean Culture	3
PHIL 1 * or	Introduction to Philosophy	3
PHIL 1H *	Honors Introduction to Philosophy	3
PHIL 5 *	History of Modern Philosophy	3
PHIL 10 *	World Religions	3
PHIL 14 *	Philosophy of Religion	3
PHIL 15 *	Introduction to Ethics	3
PORT 1 *	Elementary Portuguese	5
PORT 2 *	Elementary Portuguese	5
PORT 3 *	Intermediate Portuguese	5
PORT 4 *	Intermediate Portuguese	5
PRSN 1 *	Elementary Persian	5
PRSN 2 *	Elementary Persian	5
PRSN 3 *	Intermediate Persian	5
PRSN 4 *	Intermediate Persian	5
PRSN 21 *	Introduction to Persian Culture	3
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 10	Deaf Culture and Its History	3
SPAN 1 * or	Elementary Spanish	5
SPAN 1H *	Honors Elementary Spanish	5
SPAN 2 * or	Elementary Spanish	5
SPAN 2H *	Honors Elementary Spanish	5
SPAN 3	Intermediate Spanish	5
SPAN 4 *	Intermediate Spanish	5
SPAN 10 *	Intermediate Conversational Spanish	3
SPAN 11 *	Advanced Conversational Spanish	3
SPAN 20A *	Civilization of Spain through 1898	3
SPAN 21A *	Civilization of Latin America through 1900	3
SPAN 21B *	Civilization of Latin America 1900-Present	3
SPAN 21C *	Hispanic Culture and Literature in the United States	3

Area D: Social Sciences 9 semester units required.

Complete three courses from at least 2 different subjects

Course ID	Title	Units
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
ANTH 3 *	Culture and Language	3
ANTH 4	Native American Cultures	3
ANTH 5	Anthropology of Latin America-Culture, Identity, and Power	3
ANTH 6 *	Global Issues in Anthropological Perspective	3
ANTH 8	World Prehistory	3
ANTH 9	Introduction to Archaeology	3
ANTH 13	Magic, Witchcraft, and Religion	3
ANTH 15	The World of Primates	3
ANTH 17	The Biological Evolution of Human Nature	3
ANTH 21	Women, Gender, and Culture - Cross-Cultural Perspectives	3
CDE 7 * ‡	Child Growth and Development	3
CDE 15 *	Child, Family, and Community	3
COMM 20	Intercultural Communication	3
CTVR 1 *or*	Mass Media and Society	3
JRN 1	Mass Media and Society	3
ECON 2 * *or*	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
ECON 4 * *or*	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
ECON 11 *or*	International Political Economy	3
PS 11	International Political Economy	3
ENV 1	Introduction to Environmental Studies	3
ENV 6 *	Scarcity and Environment	3
ES 1	Introduction to Ethnic Studies: Making Culture	3
ES 3	Introduction to Chicanx and Latinx Cultures	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H	Honors Cultural Geography	3
GEOG 3	World Regional Geography	3
GEOG 38	California Geography	3
GLST 1 *	Introduction to Global Studies	3
GLST 2 *	Global Issues	3
GSS 10 *or*	Introduction to Women's Studies	3
GSS 10H	Honors Introduction to Women's Studies	3
GSS 11H	Honors Introduction to Feminist Theory	3
GSS 15	Introduction to Queer Studies	3
GSS 31	Gender and Popular Culture	3
HIST 11	Perspectives of Peace Studies	3
HIST 12	Revolutions and Revolts	3
HIST 15	The Vietnam War	3
HIST 16 ‡	History of the United States to 1876	3
HIST 17 * ‡	History of the United States since 1876	3
HIST 19	United States since 1945	3
HIST 20 *or*	Ethnic Cultures of the United States	3
SOC 20	Ethnic Cultures of the United States	3
HIST 21	Women in United States History – A Multi-Cultural Perspective	3

Course ID	Title	Units
HIST 22	Survey of United States History	3
HIST 27	Latin America – Pre-European to Independent Nationhood	3
HIST 28	Latin America – 1800 to the Present	3
HIST 30	History of Mexico	3
HIST 32	California History	3
HIST 33	Chicano – Latino American History	3
HIST 62	European History to 1650	3
HIST 63	European History since 1650	3
HIST 70	History of Asia to 1800	3
HIST 71	History of Asia since 1800	3
HIST 72	History of China	3
HIST 74	History of the Middle East to 1800	3
HIST 75	History of the Modern Middle East	3
HIST 80 *or*	Introduction to Contemporary Africa	3
PS 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3
JRN 1 *or*	Mass Media and Society	3
CTVR 1	Mass Media and Society	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
PS 4	Introduction to Political Science	3
PS 10H	Honors Political Theory	3
PS 11 *or*	International Political Economy	3
ECON 11	International Political Economy	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
PS 80 *or*	Introduction to Contemporary Africa	3
HIST 80	Introduction to Contemporary Africa	3
PSYC 1 *or*	Introduction to Psychology	3
PSYC 1H	Honors Introduction to Psychology	3
PSYC 2 * *or*	Research Methods in Psychology	3
PSYC 2H *	Honors Research Methods in Psychology	3
PSYC 4	Introduction to Cognitive Psychology	3
PSYC 5 * ‡	Psychological Aspects of Human Sexuality	3
PSYC 7 * ‡	Developmental Psychology – Childhood through Adolescence	3
PSYC 16 *	Introduction to Cross-Culture Psychology	3
PSYC 21	The Psychology of Women	3
PSYC 25 *	Psychology of Aging	3
PSYC 30 * *or*	Social Psychology	3
SOC 30 *	Social Psychology	3
PSYC 33 ‡	Psychology of Adjustment	3
PSYC 37 *	Abnormal Behavior	3
SOC 1 *or*	Introduction of Sociology	3
SOC 1H	Honors Introduction to Sociology	3
SOC 2 *or*	Social Problems	3
SOC 2H	Honors Social Problems	3
SOC 10	Introduction to Marriage and the Family	3

Course ID	Title	Units
SOC 15 *	Socialization of the Child	3
SOC 20 *or*	Ethnic Cultures of the United States	3
HIST 20	Ethnic Cultures of the United States	3
SOC 21	Women in Contemporary Society	3
SOC 23	Food and Society	3
SOC 25	Social Stratification	3
SOC 30 * *or*	Social Psychology	3
PSYC 30 *	Social Psychology	3
SOC 125	Sociology of Aging	3

Area E: Lifelong Understanding and Self-Development 3 semester units required.
A maximum of 2 units of DANC/KNES/KNEA activity courses are permitted.

Course ID	Title	Units
BUS 16	Personal Law, Street Law	3
CDE 7 * ‡	Child Growth and Development	3
CDE 126 *	School Age and Adolescent Development	3
COUN 40	College and Career Success	3
COUN 51	Human Relationships	3
COUN 60	Career Exploration	3
COUN 150	Helping Skills for Interpersonal Relationships	3
DANC 51	Introduction to Ballet	1
DANC 51	Introduction to Ballet	1.5
DANC 52	Ballet Dancing Level I	1
DANC 52	Ballet Dancing Level I	1.5
DANC 53 *	Intermediate Ballet	1
DANC 53 *	Intermediate Ballet	1.5
DANC 54	Introduction to Modern Dance	1
DANC 54	Introduction to Modern Dance	1.5
DANC 55 *	Modern Dance Level I	1
DANC 55 *	Modern Dance Level I	1.5
DANC 56 *	Intermediate Modern Dance	1
DANC 56 *	Intermediate Modern Dance	1.5
DANC 57	Introduction to Jazz Dancing	1
DANC 57	Introduction to Jazz Dancing	1.5
DANC 59 *	Intermediate Jazz Dancing	1
DANC 59 *	Intermediate Jazz Dancing	1.5
DANC 60	Introduction to Tap Dancing	1
DANC 61	Tap Dancing Level I	1
DANC 62 *	Intermediate Tap Dancing	1
DANC 63	Exercise for Dancers	1
KNES 65	Introduction to Mat Pilates	1
KNES 65	Introduction to Mat Pilates	1.5
FASH 141	Apparel Selection	3
FCS 115	Consumer Issues	3
FCS 142	Life Management	3
FN 50	Fundamentals of Nutrition	3
FN 64	Nutrition Issues and Controversies	3
FN 169	Lifecycle Nutrition	3

Course ID	Title	Units
GSS 120	Women and Careers	3
HLTH 1	Contemporary Health Issues	3
HLTH 3	Women's Health Issues	3
HS 175	Substance Abuse Education, Prevention, And Intervention	3
HSC 151 *or*	Intro to Therapy and Career Exploration of Rehabilitation	3
KNEA 151	Intro to Therapy and Career Exploration of Rehabilitation	3
KNEA 1	Adapted Strength Training	1
KNEA 1	Adapted Strength Training	1.5
KNEA 5	Adapted Swimming	.5
KNEA 5	Adapted Swimming	1
KNEA 5	Adapted Swimming	1.5
KNEA 7	Adapted Water Exercise and Aerobics	.5
KNEA 7	Adapted Water Exercise and Aerobics	1
KNEA 7	Adapted Water Exercise and Aerobics	1.5
KNEA 107	Survey and Assessment of Fitness	1
KNEA 151 *or*	Intro to Therapy And Career Exploration of Rehabilitation	3
HSC 151	Intro to Therapy and Career Exploration of Rehabilitation	3
KNES 1	Cardiovascular Conditioning	1
KNES 1	Cardiovascular Conditioning	1.5
KNES 2	Strength Training	1.5
KNES 3	Circuit Weight Training	1
KNES 3	Circuit Weight Training	1.5
KNES 4	Beginning Weight Lifting	1
KNES 4	Beginning Weight Lifting	1.5
KNES 5 *	Intermediate Weight Lifting	1
KNES 5 *	Intermediate Weight Lifting	1.5
KNES 6 *	Advanced Weight Lifting	1
KNES 6 *	Advanced Weight Lifting	1.5
KNES 7	Step Training	1
KNES 8	Beginning Cardio Kickboxing	1
KNES 8	Beginning Cardio Kickboxing	1.5
KNES 9	Stretching, Flexibility, and Conditioning	1
KNES 9	Stretching, Flexibility, and Conditioning	1.5
KNES 10	Cross Training	1
KNES 10	Cross Training	1.5
KNES 17	Beginning Bowling	1
KNES 18 *	Intermediate Bowling	1
KNES 19	Beginning Cycling and Spinning	1
KNES 19	Beginning Cycling and Spinning	1.5
KNES 20	Beginning Golf I	1
KNES 21 *	Beginning Golf II	1.5
KNES 22 *	Intermediate Golf	1
KNES 22 *	Intermediate Golf	1.5
KNES 23 *	Advanced Golf	1
KNES 24	Beginning Tennis I	1
KNES 24	Beginning Tennis I	1.5
KNES 25 *	Beginning Tennis II	1

Course ID	Title	Units
KNES 25 *	Beginning Tennis II	1.5
KNES 26 *	Intermediate Tennis	1
KNES 26 *	Intermediate Tennis	1.5
KNES 27 *	Advanced Tennis	1
KNES 27 *	Advanced Tennis	1.5
KNES 28	Beginning Yoga	1
KNES 28	Beginning Yoga	1.5
KNES 29	Introduction to Tai Chi Ch'uan	1
KNES 31	Muscle Toning for Women	1
KNES 31	Muscle Toning for Women	1.5
KNES 33 *	Beginning Surfing I	1
KNES 34 *	Beginning Surfing II - Shortboarding	1
KNES 37 *	Intermediate Tai Chi Ch'uan	1
KNES 38 *	Intermediate Mat Pilates	1
KNES 38 *	Intermediate Mat Pilates	1.5
KNES 39 *	Intermediate Yoga	1
KNES 39 *	Intermediate Yoga	1.5
KNES 41	Swimming for Nonswimmers	1
KNES 41	Swimming for Nonswimmers	1.5
KNES 42 *	Intermediate Swimming	1
KNES 42 *	Intermediate Swimming	1.5
KNES 44 *	Aquatic Conditioning	1
KNES 44 *	Aquatic Conditioning	1.5
KNES 49	Aqua Aerobics	1
KNES 49	Aqua Aerobics	1.5
KNES 50	Aerobic Dance	1
KNES 50	Aerobic Dance	1.5
KNES 63	Beginning Rock Climbing	1
KNES 65	Introduction to Mat Pilates	1
KNES 65	Introduction to Mat Pilates	1.5
KNES 66	Core Training	1
KNES 66	Core Training	1.5
KNES 68	Walking for Fitness	1
KNES 69	Trail Hiking	1
KNES 70	Basketball	1
KNES 70	Basketball	1.5
KNES 71 *	Advanced Basketball	1
KNES 71 *	Advanced Basketball	1.5
KNES 76	Beginning Volleyball	1
KNES 77 *	Intermediate Volleyball	1
KNES 78 *	Advanced Volleyball	1
KNES 79 *	Advanced Baseball	1
KNES 81	Beginning Beach Volleyball	1
KNES 84 *	Intermediate Beach Volleyball	1
KNES 88	Intermediate Rock Climbing	1
KNES 90	Beginning Self-Defense	1
KNES 91 *	Intermediate Self-Defense	1

Course ID	Title	Units
KNES 93	Beginning Karate	1
KNES 97 *	Intermediate Karate	1
KNES 107	Fitness Assessment and Survey	1
KNES 175	Futsal-Indoor Soccer	1
KNES 187	Beginning Pickleball	1
KNES 199	Street Martial Arts	1
N 161	Lifecycle 2, Growth and Development	1.5
N 165	Lifecycle 1, Fundamentals of Aging	1.5
PSYC 5 * ‡	Psychological Aspects of Human Sexuality	3
PSYC 7 * ‡	Developmental Psychology – Childhood Through Adolescence	3
PSYC 33 ‡	Psychology of Adjustment	3
SOC 16	Death and Dying	3
SOC 180	Introduction to Aging	3

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

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 16, 17, or 22 Courses taken to meet this requirement can also be used for 6 of the 9 units required in Area D.

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

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. See www.assist.org for additional information.

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 37 UNITS

Area 1: English Communication

Course ID	Title	Units
A. English Composition		
ENG 1A * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
B. Critical Thinking/Composition - Choose one course:		
ENG 1B * *or*	Principles of Composition II	3
ENG 1BH *	Honors Principles of Composition II	3
ENG 70 *	Critical Thinking, Reading, and Writing	3
C. Oral Communication - Required for CSU Transfer ONLY		
COMM 1	Communication Fundamentals	3
COMM 1H	Honors Communication Fundamentals	3

Area 2: Mathematical Concepts – 3 semester units required

Course ID	Title	Units
Complete one course:		
MATH 2 *	Pre-Calculus Mathematics	5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
MATH 3B *	Analytic Geometry and Calculus	5
MATH 3C *	Analytic Geometry and Calculus	5
MATH 7 *	College Algebra	5
MATH 8 *	College Algebra for Brief Calculus	5
MATH 10 *	Introduction to Statistics	3
MATH 11 *	A Brief Course in Calculus	5
MATH 24 *	Elementary Differential Equations	4
MATH 26 *	Introduction to Linear Algebra	4
MATH 30A * *or*	Computer Discrete Mathematics I	3
CS 30A *	Computer Discrete Mathematics I	3
MATH 30B * *or*	Computer Discrete Mathematics II	3
CS 30B *	Computer Discrete Mathematics II	3
PSYC 44 *	Statistics for the Behavioral Sciences	3

Area 3: Arts and Humanities 9 semester units required.

Complete one Course from the Arts and one from the Humanities. Select a third course from either area.

Course ID	Title	Units
A. Arts		
ARCH 12	History of Architecture	3
ART 4	Fundamentals of Arts	3
ARTH 20	Art Appreciation	3
ARTH 21	Women and Art	3
ARTH 22	Survey of Asian Art (India, China, Japan, And Korea)	3
ARTH 23	African, Oceanic, and Ancient North American Art	3
ARTH 24	Indigenous Arts of the Americas	3
ARTH 25	Survey of Art History - Ancient Worlds to Gothic	3
ARTH 26 *	Survey of Western Art History Renaissance to Contemporary	3
ARTH 27	History of American Art	3
ARTH 29	Introduction to World Art	3
ARTH 30	History of Modern Art 1825-1945	3
ARTH 32	Survey of Contemporary Art	3
CTVR 2	History and Appreciation of Television Broadcasting	3
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
DANC 64	History of Dance	3
DANC 74	Multicultural Dance History in the United States	3
GD 1	History of Animation	3
GD 2	History of Graphic Design	3
MUS 20	Music Appreciation	3
MUS 23	Introduction to World Music	3
MUS 24	Music Since 1900	3
MUS 27	History of Jazz	3
MUS 28	History of Rock	3
PHOT 25	History of Photography	3
TA 20	Theatre Appreciation	3
TA 25	Theatre History – Primitive to Renaissance	3
B. Humanities		
ARAB 2 *	Elementary Arabic	5
ARAB 3 *	Intermediate Arabic	5
ARAB 4 *	Intermediate Arabic	5
ARAB 21	Introduction to Arabic Culture	3
CHI 2 *	Elementary Chinese	5
CHI 3 *	Intermediate Chinese	5
CHI 4 *	Intermediate Chinese	5
CHI 21 *	Introduction to Chinese Culture and Influence in the U.S.	3
ENG 15A *	Survey of American Literature – 1620-1860	3
ENG 15B *	Survey of American Literature – 1860-Contemporary	3
ENG 17A *	Survey of English Literature – Beowulf to Romantic Movement	3
ENG 17B *	Survey of English Lit – Romantic Movement to the Present	3
ENG 18 *	Shakespeare – The Tragedies	3
ENG 21A *	World Literature – Ancient to 17th Century	3

Course ID	Title	Units
ENG 21B *	World Literature – 17th Century to Modern Period	3
ENG 22 * *or*	Introduction to Shakespeare	3
ENG 22H	Honors Introduction to Shakespeare	3
ENG 24 *	Ethnic Voices in Literature - The American Experience	3
ENG 25 * *or*	Introduction to Literature	3
ENG 25H	Honors Introduction to Literature	3
ENG 27A * *or*	Introduction to the Novel	3
ENG 27AH *	Honors Introduction to the Novel	3
ENG 44 *	Classical Mythology	3
ENG 52 *	The Film as Literature	3
FR 2 *	Elementary French	5
FR 3 *	Intermediate French	5
FR 4 *	Intermediate French	5
FR 21 *	Introduction to French Language and Culture	3
GER 2 *	Elementary German	5
GER 3 *	Intermediate German	5
GER 4 *	Intermediate German	5
GER 21 *	Introduction to German Culture	3
HEBR 2 *	Elementary Hebrew	5
HIST 4	World History to 1500	3
HIST 5	World History since 1500	3
HIST 16 ‡	History of the United States to 1876	3
HIST 17 ‡	History of the United States since 1876	3
HIST 30 ‡	History of Mexico	3
HIST 70 ‡	History of Asia to 1800	3
HIST 71 ‡	History of Asia Since 1800	3
HIST 72 ‡	History of China	3
HIST 75 ‡	History of the Modern Middle East	3
HON 11H *	Honors Culture, Science, Society – Renaissance	3
HON 12H *	Honors Culture, Science, Society – The Postmodern World	3
HON 13H *	Honors Culture, Science, Society – Power, Resistance, Empire	3
HON 14H *	Honors Culture, Science, Society – Transformation of Empire	3
HON 15H *	Honors Culture, Science, Society – From Philosophy to Science	3
HON 16H *	Honors Culture, Science, Society – Natural And Social Science	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
HUM 21 *	The Search for Meaning – Ideas of Self Across Cultures	3
ITA 2 *	Elementary Italian	5
ITA 3 *	Intermediate Italian	5
ITA 4 *	Intermediate Italian	5
ITA 21 *	Introduction to Italian Culture	3
JA 2 *	Elementary Japanese	5
JA 3 *	Intermediate Japanese	5
JA 4 *	Intermediate Japanese	5
JA 21 *	Introduction to Japanese Culture	3
KOR 2 *	Elementary Korean	5

Course ID	Title	Units
KOR 3 *	Intermediate Korean	5
KOR 4 *	Intermediate Korean	5
KOR 21 *	Introduction to Korean Culture	3
PHIL 1 * or	Introduction to Philosophy	3
PHIL 1H *	Honors Introduction to Philosophy	3
PHIL 5 *	History of Modern Philosophy	3
PHIL 10 *	World Religions	3
PHIL 14 *	Philosophy of Religion	3
PHIL 15 *	Introduction to Ethics	3
PORT 2 *	Elementary Portuguese	5
PORT 3 *	Intermediate Portuguese	5
PORT 4 *	Intermediate Portuguese	5
PRSN 2 *	Elementary Persian	5
PRSN 3 *	Intermediate Persian	5
PRSN 4 *	Intermediate Persian	5
PRSN 21 *	Introduction to Persian Culture	3
SL 2 *	American Sign Language II	4
SL 3 *	American Sign Language III	4
SL 4 *	American Sign Language IV	4
SPAN 2 * or	Elementary Spanish	5
SPAN 2H *	Honors Elementary Spanish	5
SPAN 3 *	Intermediate Spanish	5
SPAN 4 *	Intermediate Spanish	5
SPAN 20A *	Civilization of Spain through 1898	3
SPAN 21A *	Civilization of Latin America through 1900	3
SPAN 21B *	Civilization of Latin America 1900-Present	3
SPAN 21C *	Hispanic Culture and Literature in the United States	3

Area 4: Social and Behavioral Science 9 semester units required.

Course ID	Title	Units
Complete 3 courses from at least two different subjects		
ANTH 2 or	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
ANTH 3 *	Culture and Language	3
ANTH 4	Native American Cultures	3
ANTH 5	Anthropology of Latin America-Culture, Identity, and Power	3
ANTH 6 *	Global Issues in Anthropological Perspective	3
ANTH 8	World Prehistory	3
ANTH 9	Introduction to Archaeology	3
ANTH 13	Magic, Witchcraft, and Religion	3
ANTH 15	The World of Primates	3
ANTH 17	The Biological Evolution of Human Nature	3
ANTH 21	Women, Gender, and Culture - Cross-Cultural Perspectives	3
CDE 7 *	Child Growth and Development	3
CDE 15 *	Child, Family, and Community	3
COMM 20	Intercultural Communication	3
CTVR 1 or	Mass Media and Society	3
JRN 1	Mass Media and Society	3

Course ID	Title	Units
ECON 2 * *or*	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
ECON 4 * *or*	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
ECON 11 *or*	International Political Economy	3
PS 11	International Political Economy	3
ENV 1	Introduction to Environmental Studies	3
ENV 6 *	Scarcity and Environment	3
ES 1	Introduction to Ethnic Studies: Making Culture	3
ES 3	Introduction to Chicana(o) and Latina(o) Cultures	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H	Honors Cultural Geography	3
GEOG 3	World Regional Geography	3
GEOG 38	California Geography	3
GLST 1 *	Introduction to Global Studies	3
GLST 2 *	Global Issues	3
GSS 10 *or*	Introduction to Women's Studies	3
GSS 10H	Honors Introduction to Women's Studies	3
GSS 11H	Honors Introduction to Feminist Theory	3
GSS 15	Introduction to Queer Studies	3
GSS 31	Gender and Popular Culture	3
HIST 11	Perspectives of Peace Studies	3
HIST 12	Revolutions and Revolts	3
HIST 15	The Vietnam War	3
HIST 16 ‡	History of the United States to 1876	3
HIST 17 ‡	History of the United States since 1876	3
HIST 19	United States since 1945	3
HIST 20 *or*	Ethnic Cultures of the United States	3
SOC 20	Ethnic Cultures of the United States	3
HIST 21	Women in United States History – A Multi-Cultural Perspective	3
HIST 22	Survey of United States History	3
HIST 27	Latin America – Pre-European to Independent Nationhood	3
HIST 28	Latin America – 1800 to the Present	3
HIST 30 ‡	History of Mexico	3
HIST 32	California History	3
HIST 33	Chicano – Latino American History	3
HIST 62	European History to 1650	3
HIST 63	European History since 1650	3
HIST 70 ‡	History of Asia to 1800	3
HIST 71 ‡	History of Asia since 1800	3
HIST 72 ‡	History of China	3
HIST 74	History of the Middle East to 1800	3
HIST 75 ‡	History of the Modern Middle East	3
HIST 80 *or*	Introduction to Contemporary Africa	3
PS 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3
JRN 1 *or*	Mass Media and Society	3

Course ID	Title	Units
CTVR 1	Mass Media and Society	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
PS 4	Introduction to Political Science	3
PS 10H	Honors Political Theory	3
PS 11 *or*	International Political Economy	3
ECON 11	International Political Economy	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
PS 80 *or*	Introduction to Contemporary Africa	3
HIST 80	Introduction to Contemporary Africa	3
PSYC 1 *or*	Introduction to Psychology	3
PSYC 1H	Honors Introduction to Psychology	3
PSYC 2 * *or*	Research Methods in Psychology	3
PSYC 2H *	Honors Research Methods in Psychology	3
PSYC 4	Introduction to Cognitive Psychology	3
PSYC 5 *	Psychological Aspects of Human Sexuality	3
PSYC 7 *	Developmental Psychology – Childhood through Adolescence	3
PSYC 16 *	Introduction to Cross-Culture Psychology	3
PSYC 21	The Psychology of Women	3
PSYC 25	Psychology of Aging	3
PSYC 30 * *or*	Social Psychology	3
SOC 30	Social Psychology	3
PSYC 33	Psychology of Adjustment	3
PSYC 37 *	Abnormal Behavior	3
SOC 1 *or*	Introduction to Sociology	3
SOC 1H	Honors Introduction to Sociology	3
SOC 2 *or*	Social Problems	3
SOC 2H	Honors Social Problems	3
SOC 10	Introduction to Marriage and the Family	3
SOC 15 *	Socialization of the Child	3
SOC 16	Death and Dying	3
SOC 20 *or*	Ethnic Cultures of the United States	3
HIST 20	Ethic Cultures of the United States	3
SOC 21	Women in Contemporary Society	3
SOC 23	Food and Society	3
SOC 25	Social Stratification	3
SOC 30 * *or*	Social Psychology	3
PSYC 30	Social Psychology	3

Area 5: Physical and Biological Sciences – 7 semester units required.

Complete one course from the Physical Science and one from the Biological Sciences. One course must have a laboratory. # denotes laboratory course.

Course ID	Title	Units
A. Physical Science		
ASTR 20	General Astronomy	3
ASTR 20 *and*	General Astronomy	3
ASTR 25 *#	Observational Astronomy	3

Course ID	Title	Units
ASTR 21 *or*	The Solar System	3
GEOL 21	The Solar System	3
CHEM 1A *#	General Chemistry	5
CHEM 1B *#	General Chemistry	5
CHEM 3 *#	Fundamental Chemistry	4
CHEM 12A *#	Organic Chemistry	5
CHEM 12B *#	Organic Chemistry	5
ENV 23 # *or*	Environmental Geology	4
GEOL 23 #	Environmental Geology	4
ENV 38	Water Quality and Monitoring	3
GEOG 1 *or*	Physical Geography	3
GEOG 1H	Honors Physical Geography	3
GEOG 1 *and*	Physical Geography	3
GEOG 1L *#	Physical Geography Laboratory	1
GEOL 1 #	Introduction to Physical Geology	4
GEOL 2 *#	Historical Geology	4
GEOL 3	Geology of California	3
GEOL 4	Natural Disasters	3
GEOL 7	Weather and Climate	3
GEOL 20 #	Introduction to Earth Science	4
GEOL 21 *or*	The Solar System	3
ASTR 21	The Solar System	3
GEOL 23 # *or*	Environmental Geology	4
ENV 23 #	Environmental Geology	4
MS 4 #	Southern California Coastal Ecology	4
MS 20 #	Introduction to Oceanography	4
PHYS 2A *#	Introduction to Physics	5
PHYS 2B *#	Introduction to Physics	5
PHYS 4A *#	General Physics	5
PHYS 4B *#	General Physics	5
PHYS 4C *#	General Physics	5
PHYS 20 #	The Ideas and Events of Physics	4
PHYS 30 * #	Physics and Chemistry for Elementary Educators	4
B. Biological Science		
ANTH 1 *or*	Biological Anthropology	3
ANTH 1H	Honors Biological Anthropology	3
ANTH 1 *and*	Biological Anthropology	3
ANTH 1L *#	Biological Anthropology Laboratory	1
BIO 3AH *#	Honors General Biology I	5
BIO 3BH *#	Honors General Biology II	5
BIO 3C *#	Biochemistry and Molecular Biology	5
BIO 4A *#	Principles of Cellular Biology	4
BIO 4B *#	Principles of Organismal Biology	4
BIO 11 *#	Human Anatomy	4
BIO 15 *#	General Microbiology	5
BIO 19 #	Marine Biology	4
BIO 20 #	Introduction to Biology	4

Course ID	Title	Units
BIO 28	Plants and Human Affairs	3
BIO 30 *	Human Biology	3
BIO 31 *#	Biology of Plants	3
BIO 40	Evolution	3
BIO 43 *	Animal Behavior	3
ENV 5	Biodiversity Conservation	3
ENV 18 #	Introduction to Ecology	4
ENV 24 #	Natural History of California	4
HORT 20 #	Introduction to Horticultural Science	4
PSYC 3 *	Biological Psychology	4
C. Science Laboratory – One science MUST have a laboratory. # Denotes laboratory course		

Area 6: Language Other than English – UC Requirement ONLY

Proficiency equal to two years of study in one foreign language in high school with grades of "C" or better (Official copy of the high school transcript must be on file in Admissions and Records) OR Select one course from the following OR see a counselor for other options:

Course ID	Title	Units
ARAB 1 *	Elementary Arabic	5
ARAB 2 *	Elementary Arabic	5
ARAB 3 *	Intermediate Arabic	5
ARAB 4 *	Intermediate Arabic	5
CHI 1 *	Elementary Chinese	5
CHI 2 *	Elementary Chinese	5
CHI 3 *	Intermediate Chinese	5
CHI 4 *	Intermediate Chinese	5
FR 1 *	Elementary French	5
FR 2 *	Elementary French	5
FR 3 *	Intermediate French	5
FR 4 *	Intermediate French	5
GER 1 *	Elementary German	5
GER 2 *	Elementary German	5
GER 3 *	Intermediate German	5
GER 4 *	Intermediate German	5
HEBR 1 *	Elementary Hebrew	5
HEBR 2 *	Elementary Hebrew	5
ITA 1 *	Elementary Italian	5
ITA 2 *	Elementary Italian	5
ITA 3 *	Intermediate Italian	5
ITA 4 *	Intermediate Italian	5
JA 1 *	Elementary Japanese	5
JA 2 *	Elementary Japanese	5
JA 3 *	Intermediate Japanese	5
JA 4 *	Intermediate Japanese	5
KOR 1 *	Elementary Korean	5
KOR 2 *	Elementary Korean	5
KOR 3 *	Intermediate Korean	5
KOR 4 *	Intermediate Korean	5
PORT 1 *	Elementary Portuguese	5
PORT 2 *	Elementary Portuguese	5

Course ID	Title	Units
PORT 3 *	Intermediate Portuguese	5
PORT 4 *	Intermediate Portuguese	5
PRSN 1 *	Elementary Persian	5
PRSN 2 *	Elementary Persian	5
PRSN 3 *	Intermediate Persian	5
PRSN 4 *	Intermediate Persian	5
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
SPAN 1 * or	Elementary Spanish	5
SPAN 1H *	Honors Elementary Spanish	5
SPAN 2 * or	Elementary Spanish	5
SPAN 2H *	Honors Elementary Spanish	5
SPAN 3 *	Intermediate Spanish	5
SPAN 4 *	Intermediate Spanish	5
SPAN 6 *	Intermediate Spanish Grammar and Composition	3

Note: CSU Graduation requirement in U.S. History, Constitution, and American Ideals can be met by completing PS 1 or PS 1H AND one U.S. History course selected from HIST 16, 17 or 22.

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

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

General Studies - Arts & Humanities
Associate of Arts

The General Studies Associate Degree with an area of emphasis in the Arts & Humanities provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. This degree, which is multidisciplinary in nature, provides a broad understanding of the contemporary world, its people, and cultures. This degree also seeks to examine the study of cultural, literary, humanistic activities and the artistic expression of human beings.

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 skills to pursue lifelong learning in the areas of arts and humanities.
- Make connections between the fine arts and humanities to demonstrate knowledge and an appreciation of factors that influence traditions.

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 an ability to make value judgments.

Choose 18 units from:

Course ID	Title	Units
ARAB 1	Elementary Arabic	5
ARAB 2 *	Elementary Arabic	5
ARAB 21	Introduction to Arabic Culture	3
ARCH 12	History of Architecture	3
ART 4	Fundamentals of Art	3
ARTH 20	Art Appreciation	3
ARTH 21	Women and Art	3
ARTH 22	Survey of Asian Art (India, China, Japan, And Korea)	3
ARTH 23	African, Oceanic, and Ancient North American Art	3

Course ID	Title	Units
ARTH 24	Indigenous Arts of the Americas	3
ARTH 25	Survey of Art History - Ancient Worlds To Gothic	3
ARTH 26 *	Survey of Western Art History - Renaissance to Contemporary	3
ARTH 29	Introduction to World Art	3
ARTH 30	History of Modern Art 1825-1945	3
ARTH 32	Survey of Contemporary Art	3
CHI 1 *	Elementary Chinese	5
CHI 2 *	Elementary Chinese	5
CHI 21 *	Introduction to Chinese Culture and Influence in the U.S.	3
CTVR 3	The History and Appreciation of American Cinema	3
CTVR 9	Women in Cinema and Television	3
DANC 64	History of Dance	3
ENG 3 *	Introduction to Creative Writing	3
ENG 4 *	Fiction Fundamentals	3
ENG 15A *	Survey of American Literature - 1620-1860	3
ENG 15B *	Survey of American Literature - 1860-Contemporary	3
ENG 17A *	Survey of English Literature - Beowulf to Romantic Movement	3
ENG 17B *	Survey of English Lit - Romantic Movement to the Present	3
ENG 18 *	Shakespeare - The Tragedies	3
ENG 21A *	World Literature - Ancient to 17th Century	3
ENG 21B *	World Literature - 17th Century to Modern Period	3
ENG 24 *	Ethnic Voices in Literature - The American Experience	3
ENG 25 * or	Introduction to Literature	3
ENG 25H *	Honors Introduction to literature	3
ENG 27A * or	Introduction to the Novel	3
ENG 27AH *	Honors Introduction to the Novel	3
ENG 44 *	Classical Mythology	3
ENG 52 *	The Film as Literature	3
ENG 142 *	Children's Literature	3
FASH 144	Fashion Trends and Cultural Costumes	3
FR 1 *	Elementary French	5
FR 2 *	Elementary French	5
FR 3 *	Intermediate French	5
FR 4 *	Intermediate French	5
GER 1 *	Elementary German	5
GER 2 *	Elementary German	5
GER 3 *	Intermediate German	5
GER 4 *	Intermediate German	5
GD 1	History of Animation	3
GD 2	History of Graphic Design	3
HEBR 1 *	Elementary Hebrew	5
HEBR 2 *	Elementary Hebrew	5
HIST 4	World History to 1500	3
HIST 5	World History Since 1500	3
HON 11H *	Honors Culture, Science, Society - Renaissance	3
HON 12H *	Honors Culture, Science, Society - The Postmodern World	3

Course ID	Title	Units
HON 13H *	Honors Culture, Science, Society - Power, Resistance, Empire	3
HON 14H *	Honors Culture, Science, Society - Transformation of Empire	3
HON 15H *	Honors Culture, Science, Society - From Philosophy to Science	3
HON 16H *	Honors Culture, Science, Society - Natural and Social Sciences	3
HORT 115	History of Landscape Design	3
HUM 1 *	Introduction of Humanities	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
ID 110	Fundamentals of Interior Design	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3
ITA 1 *	Elementary Italian	5
ITA 2 *	Elementary Italian	5
ITA 3 *	Intermediate Italian	5
ITA 4 *	Intermediate Italian	5
ITA 21 *	Introduction to Italian Culture	3
JA 1 *	Elementary Japanese	5
JA 2 *	Elementary Japanese	5
JA 21 *	Introduction of Japanese Culture	3
KOR 1 *	Elementary Korean	5
KOR 2 *	Elementary Korean	5
KOR 21 *	Introduction to Korean Culture	3
MUS 1	The Basics of Music	3
MUS 20	Music Appreciation	3
MUS 23	Introduction to World Music	3
MUS 24	Music Since 1900	3
MUS 27	History of Jazz	3
MUS 28	History of Rock	3
PRSN 1 *	Elementary Persian	5
PRSN 2 *	Elementary Persian	5
PRSN 3 *	Intermediate Persian	5
PRSN 4 *	Intermediate Persian	5
PHIL 1 * or	Introduction to Philosophy	3
PHIL 1H *	Honors Introduction to Philosophy	3
PHIL 10 *	World Religions	3
PHIL 15 *	Introduction to Ethics	3
PHOT 25	History of Photography	3
PORT 1 *	Elementary Portuguese	5
PORT 2 *	Elementary Portuguese	5
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
COMM 30	Introduction to Oral Interpretation	3
COMM 32 *	Interpreters' Theatre	3

Course ID	Title	Units
SPAN 1 * or	Elementary Spanish	5
SPAN 1H *	Elementary Spanish	5
SPAN 2 * or	Elementary Spanish	5
SPAN 2H *	Honors Elementary Spanish	5
SPAN 3 *	Intermediate Spanish	5
SPAN 4 *	Intermediate Spanish	5
SPAN 6 *	Intermediate Spanish Grammar and Composition	3
TA 20	Theatre Appreciation	3
TA 22	Musical Theatre History and Appreciation	3
TA 25	Theatre History - Primitive to Renaissance	3
TOTAL UNITS FOR THE MAJOR:		**18**

*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 all overall GPA of 2.0 to qualify for the Associate of Arts degree. A minimum of 12 units must be completed a 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 of Arts

The General Studies Associate Degree with an area of emphasis in the Natural Sciences provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. This degree, which is multidisciplinary in nature, provides a broad foundation in the natural sciences and seeks to examine the physical universe, its life forms and its natural phenomena.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Develop a reasoned solution to a problem.
- Demonstrate the ability to use the attained knowledge foundation to illustrate concepts and compare examples.
- Apply scientific method to solve practical problems in the sciences.

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.

Choose 18 units from:

Course ID	Title	Units
ANTH 1 or	Biological Anthropology	3
ANTH 1H	Honors Biological Anthropology	3
ANTH 1L *	Biological Anthropology	1
ASTR 20	General Astronomy	3
ASTR 25 *	Observational Astronomy	3
BIO 3AH *	Honors General Biology I	5
BIO 3BH *	Honors General Biology II	5
BIO 4A *	Principles of Cellular Biology	4
BIO 4B	Principles of Organismal Biology	4
BIO 11 *	Human Anatomy	4
BIO 12 *	Human Physiology	4
BIO 15 *	General Microbiology	5
BIO 19 *	Marine Biology	4
BIO 20	Introduction to Biology	4

Course ID	Title	Units
BIO 113	Human Anatomy and Physiology	4
CHEM 1A *	General Chemistry	5
CHEM 2 *	General Chemistry Principles	5
CHEM 3 *	Fundamental Chemistry	4
CHEM 106 *	Basics of Chemistry	2
CHEM 108	Introduction to General Organic, and Biochemistry	4
ENV 18	Introduction to Ecology	4
ENV 23 *or*	Environmental Geology	4
GEOL 23	Environmental Geology	4
ENV 24	Natural History of California	4
GEOG 1 *or*	Physical Geography	4
GEOG 1H	Honors Geography	3
GEOG 1L *	Physical Geography Laboratory	1
GEOL 1	Introduction to Physical Geology	4
GEOL 20	Introduction to Earth Science	4
GEOL 23 *or*	Environmental Geology	4
ENV 23	Environmental Geology	4
HORT 20	Introduction to Horticultural Science	4
MS 4	Southern California Coastal Ecology	4
MS 20	Introduction to Oceanography	4
PHYS 2A *	Introduction to Physics	5
PHYS 4A *	General Physics	5
PHYS 20	The Ideas and Events of Physics	4
PHYS 30 *	Physics and Chemistry for Elementary Educators	4
PSYC 3 *	Biological Psychology	4
	TOTAL UNITS FOR THE MAJOR:	**18**

*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 all overall GPA of 2.0 to qualify for the Associate of Arts degree. A minimum of 12 units must be completed a 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 of Arts

The General Studies Associate Degree with an emphasis in the Social & Behavioral Sciences provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree, which is multidisciplinary in nature, seeks to provide an understanding of the interrelationships, principles and methodologies of its many subject areas and to provide a broad understanding of the diverse social and cultural world in which we live.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Evaluate the methods of inquiry and evidence used in the behavioral and social sciences.
- Apply the principles of the social and behavioral sciences to the diverse world in which we live.
- Compare and contrast the major theoretical perspectives in the social and behavioral sciences.

Social & Behavioral Sciences:

Courses will stimulate critical thinking skills and provide a broad understanding of the diverse social, cultural, and intellectual world in which we live.

Choose 18 units from:

Course ID	Title	Units
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
ANTH 3	Culture and Language	3
ANTH 4	Native American Cultures	3
ANTH 5	Anthropology of Latin American-Culture, Identify, and Power	3
ANTH 8	World Prehistory	3
ANTH 9	Introduction to Archaeology	3
ANTH 10	Celtic Cultures	3
ANTH 17	The Biological Evolution of Human Nature	3
ANTH 21	Women, Gender, and Culture-Cross- Cultural Perspectives	3
BUS 1 *or*	Introduction to Business	3
BUS 1H	Honors Introduction to Business	3
CDE 7 *	Child Growth and Development	3
CDE 15	Child, Family and Community	3
CTVR 1 *or*	Mass Media and Society	3
JRN 1	Mass Media and Society	3
ECON 2 * *or*	Principles (Macro)	3
ECON 2H *	Honors Principles of Macroeconomics	3
ECON 4 * *or*	Principles (Micro)	3
ECON 4H *	Honors Principles Microeconomics	3
ES 1	Multicultural Experiences in the United States	3
ES 3	Introduction to Chicana(o) and Latina(o) Cultures	3
ENV 1	Introduction to Environmental Studies	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H	Honors Cultural Geography	3
GEOG 3	World Regional Geography	3
HIST 12	Revolutions and Revolts	3
HIST 16	History of the United States to 1876	3
HIST 17	History of the United States Since 1876	3
HIST 19	United States Since 1945	3
HIST 20 *or*	Ethnic Cultures of the United States	3
SOC 20	Ethnic Cultures of the United States	3
HIST 21	Women in United States History – A Multicultural Perspective	3
HIST 22	Survey of United States History	3
HIST 27	Latin America – Pre-European to Independent Nationhood	3
HIST 28	Latin America – 1800 to the Present	3
HIST 30	History of Mexico	3
HIST 33	Chicano – Latino American History	3
HIST 62	European History to 1650	3
HIST 70	History of Asia to 1800	3
HIST 71	History of Asia Since 1800	3
HIST 72	History of China	3
HIST 74	History of the Middle East to 1800	3
HIST 75	History of the Modern Middle East	3
HIST 80 *or*	Introduction to Contemporary Africa	3
PS 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3

Course ID	Title	Units
HS 100	Introduction to Human Services	3
HS 120	Human Development in the Social Environment	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
PS 4	Introduction to Political Science	3
PS 11 *or*	International Political Economy	3
ECON 11	International Political Economy	3
PS 12	Comparative Politics and Economy	3
PS 14	International Relations	3
PSYC 1 *or*	Introduction to Psychology	3
PSYC 1H	Honors Introduction to Psychology	3
PSYC 4	Introduction to Cognitive Psychology	3
PSYC 5 *	Psychological Aspects of Human Sexuality	3
PSYC 7 *	Development Psychology	3
PSYC 16 *	Introduction to Cross-Culture Psychology	3
PSYC 21	The Psychology of Women	3
PSYC 37 *	Abnormal Behavior	3
SOC 1 *or*	Introduction to Sociology	3
SOC 1H	Honors Introduction to Sociology	3
SOC 2 *or*	Social Problems	3
SOC 2H	Honors Social Problems	3
SOC 10	Introduction to Marriage and the Family	3
SOC 15 *	Socialization of the Child	3
SOC 21	Women in Contemporary Society	3
SOC 30 * *or*	Social Psychology	3
PSYC 30 *	Social Psychology	3
COMM 20	Intercultural Communication	3
GSS 10 *or*	Introduction to Women's Studies	3
GSS 10H	Honors Introduction to Women's Studies	3
TOTAL UNITS FOR THE MAJOR:		**18**

*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 all 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.

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 * *or*	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
COMM 1 * *or*	Communication Fundamentals	3
COMM 1H * *or*	Honors Communication Fundamentals	3
COMM 5	Interpersonal Communication	3
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
Group A: Select one of the following courses (3 Units)		
ENG 1B * *or*	Principles of Composition II	3
ENG 1BH * *or*	Honors Principles of Composition II	3
ENG 70 * *or*	Critical Thinking, Reading, and Writing	3
PHIL 12 * *or*	Introduction to Logic	3
COMM 2 * *or*	Persuasion	3
COMM 3 *	Argumentation and Debate	3
Group B: Select one of the following courses (3 Units)		
HIST 16 *or*	History of the United States to 1876	3
HIST 17 *or*	History of the United States since 1876	3
HIST 22	Survey of United States History	3
Group C: Select one of the following courses (3-5 Units)		
MATH 2 * *or*	Pre-Calculus Mathematics	5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH * *or*	Honors Analytic Geometry and Calculus	5
MATH 3B * *or*	Analytic Geometry and Calculus	5
MATH 3C * *or*	Analytic Geometry and Calculus	5
MATH 7 * *or*	College Algebra	5
MATH 8 * *or*	College Algebra for Brief Calculus	5
MATH 10 * *or*	Introduction to Statistics	3
MATH 11 * *or*	A Brief Course in Calculus	5
MATH 14 * *or*	Mathematics for Elementary School Teachers	5
MATH 24 * *or*	Elementary Differential Equations	4
MATH 26 * *or*	Introduction to Linear Algebra	4
MATH 103 * *or*	Mathematical Ideas	3
MATH 124 * *or*	Trigonometry	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
TOTAL UNITS FOR THE MAJOR:		**19-21**

*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.

Geography

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:

Course ID	Title	Units
GEOG 1	Physical Geography	3
GEOG 1L *	Physical Geography Laboratory	1
GEOG 2	Cultural Geography	3
GEOG 3	World Regional Geography	3
	Select from Restricted Electives	9-13
	TOTAL UNITS FOR THE MAJOR:	**19-23**
Restricted Electives		
ANTH 1, ANTH 2 ; GEOG 38 GEOL 1; HIST 4, HIST 5 , HIST 32 ; PS 11 /ECON 11 , PS 14		

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

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

REQUIRED COURSES (6-7 UNITS)

Course ID	Title	Units
GEOG 1 *and*	Physical Geography	3
GEOG 1L *or*	Physical Geography Laboratory	1
GEOG 1H *and*	Honors Physical Geography	3
GEOG 1L *	Physical Geography Laboratory	1
GEOG 2 *or*	Cultural Geography	3
GEOG 2H	Honors Cultural Geography	3
List A: Select two to three (6-7 units)		
GEOG 3	World Regional Geography	3
GEOG 38	California Geography	3
GEOG 110 *or*	Introduction to Geographic Information Systems (GIS)	2
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	Field Geography	2
GEOG 109	Field Studies of Coastal Regions	1
List B: Select two (6 units) or any List A course not already used		
CS 1B *	Introduction to Computer Science II	3.5
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
GEOL 20	Introduction to Earth Science	4
CHEM 1A *	General Chemistry	5
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
	TOTAL UNITS FOR THE MAJOR:	**19-25**

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

Global Studies
Associate in Arts for Transfer

Global Studies is an interdisciplinary program designed to enhance student knowledge and understanding of global processes and their implications for societies, markets, governments, cultures, and environments around the world. The program also introduces students to the study of global issues and perspectives while providing the methodological tools and techniques necessary to analyze them at multiple (local, regional, and international) levels. An understanding of the world's social, economic, political, cultural, and natural systems and their growing interdependence will not only enable students to think globally, but prepare them to live, work, and participate in an increasingly globalized world as well. The goal of the Global Studies Program at Saddleback College is to prepare students for further work in international studies and world affairs through the study of other cultures, social, economic, and political systems, world history and geography. The program is designed to encourage students to think beyond local perspectives and to think globally. Students will learn how to relate their knowledge of a particular part of the world to be larger trends and issues that affect the international community as a whole. Students who earn an associate degree this degree transfer as Global Studies majors or into other related majors such as International Relations, Geography, or Political Science.

Students who complete the Associate in Arts in Global Studies 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:
- Learn contents and methods of global studies, across the fields of business/economics, history/politics, geography/environment, and society/culture.
- Learn skills essential to professional success, such as managing empirical information, writing syntheses, and composing oral and written papers based on evidence.
- Move beyond information and skills to achieve true professional understanding, emphasizing the interconnected character of human and environmental problems on a global scale and how multidisciplinary approaches must be used to solve them.

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:

Course ID	Title	Units
GLST 1 *	Introduction to Global Studies	3
GLST 2 *	Global Issues	3
List A: Select five courses from at least four of the following areas (15 units)		
Area 1: Culture and Society		
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
HIST 5	World History Since 1500	3
Area 2: Geography		
GEOG 1 *or*	Physical Geography	3
GEOG 1H	Honors Physical Geography	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H	Honors Cultural Geography	3
GEOG 3	World Regional Geography	3
Area 3: Economics		
ECON 4 * *or*	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
ECON 2 *or*	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
Area 4: Politics		
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
Area 5: Humanities		
ENG 21A *	World Literature - Ancient to 17th Century	3
ENG 21B *	World Literature - 17th Century to Modern Period	3
TOTAL UNITS FOR THE MAJOR:		**21**

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

Geology

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:

Course ID	Title	Units
GEOL 1	Introduction to Physical Geology	4
GEOL 2 *	Historical Geology	4
CHEM 1A *	General Chemistry	5
CHEM 1B *	General Chemistry	5
MATH 3A *	Analytic Geometry and Calculus	5
MATH 3B *	Analytic Geometry and Calculus	5
	TOTAL UNITS FOR THE MAJOR:	28

*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.

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:

Course ID	Title	Units
GD 149	Digital Illustration	3
ART 80	Drawing I	3
BIO 20	Introduction to Biology	4
GD 200	Photoshop Skills for Graphic Designers	3
GD 150 *	Digital Animation	3
ART 85 *	Drawing from the Live Model I	3
BIO 113	Human Anatomy and Physiology	4
GD 199 *	Digital Illustration II	3
GD 249 *	Biomedical Illustration	3
	TOTAL UNITS FOR THE CERTIFICATE:	**29**

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

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
GD 140 *or*	Beginning Graphic Design	3
ART 140	Beginning Graphic Design	3
GD 150 *	Digital Animation	3
GD 151	Digital Layout and Design	3
GD 210	Motion Graphics	3
CWE 180	Co-Op-Ed Graphics	1
	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.

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
GD 140 *or*	Beginning Graphic Design	3
ART 140	Beginning Graphic Design	3
GD 150 *	Digital Animation	3
GD 151	Digital Layout and Design	3
GD 210	Motion Graphics	3
CWE 180	Co-op-Ed Graphics	1
	TOTAL UNITS FOR THE CERTIFICATE:	**22**

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

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 *or*	Introduction to Screen Printing	3
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

Course ID	Title	Units
GD 160 *	Professional Practices for Graphic Designers	3
CWE 180	Co-Op-Ed Graphics	1
GC 215	Introduction to Vehicle Wrap Design and Application	1
	TOTAL UNITS FOR THE MAJOR:	**29**

*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.

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 *or*	Introduction to Screen Printing	3
ART 63	Art 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
GD 160 *	Professional Practices for Graphic Designers	3
CWE 180	Co-Op-Ed Graphics	1
GC 215	Introduction to Vehicle Wrap Design and Application	1
	TOTAL UNITS FOR THE CERTIFICATE:	**29**

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

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
GD 2	History of Graphic Design	3
GD 140 *or*	Beginning Graphic Design	3
ART 140	Beginning Graphic Design	3
GD 142 *or*	Package Design	3
ART 142	Package Design	3
GD 144	Typography	3
GD 145 *or*	Graphic Illustration	3
ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149	Digital Illustration	3
GD 154 *	Digital Pre-Press	3
GD 160 *	Professional Practices for Graphic Designers	3
GD 200	Photoshop Skills for Graphic Designers	3
GD 240 * *or*	Intermediate Graphic Design	3
ART 240 *	Intermediate Graphic Design	3
CWE 180	Co-Op-Ed Graphics	1
TOTAL CORE 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.

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Graphic Design
Certificate of Achievement

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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
GD 2	History of Graphic Design	3
GD 140 *or*	Beginning Graphic Design	3
ART 140	Beginning Graphic Design	3
GD 142 *or*	Package Design	3
ART 142	Package Design	3

Course ID	Title	Units
GD 144	Typography	3
GD 145 *or*	Graphic Illustration	3
ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149	Digital Illustration	3
GD 154 *	Digital Pre-Press	3
GD 160 *	Professional Practices for Graphic Designers	3
GD 200	Photoshop Skills for Graphic Designers	3
GD 240 * *or*	Intermediate Graphic Design	3
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.

Illustration/Animation
Associate of Arts

The Illustration/Animation Associate of Arts Program prepares students for entry-level animation and illustration employment in areas such as: editorial and product illustration, animation, motion design, multimedia design, digital image design, and responsive media. The program also provides coursework for professionals upgrading skills and focuses on methods for creating, synthesizing, manipulating, and delivering meaningful and effective visual content to the user/viewer in one or more of these areas.

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 CORE:

Course ID	Title	Units
ART 80	Drawing I	3
GD 141 *or*	Graphic Rendering Techniques	3
ART 141	Graphic Rendering Techniques	3
GD 144	Typography	3
GD 145 *or*	Graphic Illustration	3
ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149	Digital Illustration	3
GD 1	History of Animation	3
GD 150 *	Digital Animation	3
GD 210	Motion Graphics	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 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.

Illustration/Animation
Certificate of Achievement

The Illustration/Animation Certificate Program prepares students for entry-level animation and illustration employment in areas such as: editorial and product illustration, animation, motion design, multimedia design, digital image design, and responsive media. The program also provides coursework for professionals upgrading skills and focuses on methods for creating, synthesizing, and delivering meaningful and effective visual content to the user/viewer in one or more of these areas.

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 CORE:

Course ID	Title	Units
ART 80	Drawing I	3
GD 141 *or*	Graphic Rendering Techniques	3
ART 141	Graphic Rendering Techniques	3
GD 144	Typography	3
GD 145 *or*	Graphic Illustration	3
ART 145	Graphic Illustration	3
GD 147	Introduction to Computer Graphics	3
GD 149	Digital Illustration	3
GD 1	History of Animation	3
GD 150 *	Digital Animation	3
GD 210	Motion Graphics	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.

Surface Design
Certificate of Achievement

The Surface Design program covers the creative and technical aspects of surface design as it relates to creating repeat patterns and designs for products including textiles, home furnishings, wall coverings, floor coverings, decorative papers, greeting cards, and other surfaces. The program covers the process from initial research, design awareness, theme development and realization, to the various ways of printing and applying those designs to a variety of surfaces and materials. Creative, technical, and practical processes and procedures will be covered. Students completing this program would be prepared for entry-level employment in the textile, home-goods, and paper-goods surface design industries as entry-level designers, illustrators, and/or print technicians.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Use fundamental design skills
- Select and use appropriate design software
- Select and use appropriate print methodologies and technology
- Demonstrate skills typically found in the surface design field

REQUIRED CORE

Course ID	Title	Units
GC 208 *	Surface Design I	3
GC 218 *	Surface Design II	3
GD 149	Digital Illustration	3
TOTAL UNITS FOR THE CERTIFICATE:		**9**

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

Health Information Technology

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 52.5-54.5 unit coursework plus the general education courses needed to get the associate degree. The degree includes both of AHIMA's specialty tracks: revenue management (RM) and data management (DM). 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.

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
Students who complete this program will be able to:
- 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:

Course ID	Title	Units
HSC 104	Medical Terminology	3
CIM 10 *or*	Introduction to Information Systems	3
CIM 1	Computer Information Systems	4
HIT 100 *	Health Information Science	2
HSC 107 * *or*	Human Body Fundamentals	3
BIO 113	Human Anatomy and Physiology	4
HSC 106	Legal and Ethical Aspects of Health Information	3
HIT 101 *	Alternative Healthcare Delivery Systems	2
CIMW 105	Web-Development and DB Intro SQL – and MYSQL	3
HIT 111 *	Healthcare Information Technologies (HCIT)	3
HSC 108 *	Disease Processes for the Health Sciences	3
HIT 109 *	ICD Diagnostic Coding	3
HIT 110 *	ICD Procedure Coding	2
CIMA 288	Database-Reporting	3.5
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
HIT 115 *	CPT and Ambulatory Care Coding	3
HIT 116 *	Performance Improvement in Healthcare	3
HIT 119 *	Management of Resources in Healthcare	3
HIT 122 *	Reimbursement Methodologies	3
HIT 130 *	Directed Practice	4
TOTAL UNITS FOR THE MAJOR:		**52.5-54.5**

*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 must be completed at Saddleback College.

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

Accreditation
The Health Information Technology Program (HIT) is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

To contact CAHIIM
233 N. Michigan Ave 21st Floor
Chicago, IL 60602-5800
(312) 233-1100
Fax (312) 223-1948
info@Cahiim.org

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:

Course ID	Title	Units
HSC 104	Medical Terminology	3
CIM 10 *or*	Introduction to Information Systems	3
CIM 1	Computer Information Systems	4
MA 280 *or*	Healthcare Organization Practices	3
HIT 100 *	Health Information Science	2
CIMW 105	Web Development and DB - Intro SQL and MYSQL	3
HIT 111 *	Healthcare Information Technologies (HCIT)	3
CIMA 288	Database Reporting	3.5
	TOTAL UNITS FOR THE MAJOR:	**17.5-19.5**

Health Sciences

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 in areas 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 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
CWE 180	Co-Op-Ed Internship for Pre-Therapy Students	1
CWE 180	Co-Op-Ed Internship for Pre-Therapy Students	2
EMT 207 * *and*	Emergency Medical Technician Procedures	11
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 *	Healthcare 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
HSC 226 *	Advanced Cardiac Life Support	2

Course ID	Title	Units
HSC 227 *	Pediatric Advanced Life Support	2
HSC 228	Calculations for Medication Administration	1
HSC 291	Management of Aggressive Behavior in Healthcare Settings	0.5
KNEA 151 *or*	Intro to Therapy and Career Exploration of Rehabilitation	3
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	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 Applications	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.

History

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.

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.

REQUIRED COURSES:

Course ID	Title	Units
HIST 16	History of the United States to 1876	3
HIST 17	History of the United States Since 1876	3
List A: (6 units)		
HIST 4	World History to 1500	3
HIST 5	World History Since 1500	3
List B: Select one course from each area (6 units)		
Area 1: Diversity (3 units)		
HIST 62	European History to 1650	3
HIST 12	Revolutions and Revolts	3
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
Area 2: (3 units) Any history course or any non-history course from the humanities or social sciences related to history.		
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
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 63	European History Since 1650	3
HIST 71	History of Asia Since 1800	3
HIST 75	History of the Modern Middle East	3
SOC 1	Introduction to Sociology	3
SOC 2	Social Problems	3
	TOTAL UNITS FOR THE MAJOR:	**18**

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

History
Associate of 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 the opportunity to achieve an Associate of 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 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 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:
- 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 is 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.
- Explain and analyze a key historical event or process in the area and during the period under study.
- Understand the difference between opinions and substantiated scholarly claims.

REQUIRED COURSES:

Course ID	Title	Units
HIST 4	World History to 1500	3
HIST 5	World History Since 1500	3
HIST 16	History of the United States to 1876	3
HIST 17	History of the United States Since 1876	3
	Select from Restricted Electives	6
	TOTAL UNITS FOR THE MAJOR:	**18**
Restricted Electives: Student select two courses - 6 units		
HIST 11	Perspectives of Peace Studies	3
HIST 12	Revolutions and Revolts	3
HIST 15	The Vietnam War	3
HIST 19	United States Since 1945	3
HIST 20	Ethnic Cultures of the United States	3
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 29	Film and History in Latin America	3
HIST 30	History of Mexico	3
HIST 32	California History	3
HIST 33	Chicano - Latino American History	3
HIST 62	European History to 1650	3
HIST 63	European History Since 1650	3
HIST 70	History of Asia to 1800	3
HIST 71	History of Asia Since 1800	3
HIST 72	History of China	3

Course ID	Title	Units
HIST 74	History of the Middle East to 1800	3
HIST 75	History of the Modern Middle East	3
HIST 78	History of Japan	3
HIST 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3
ES 1	Multicultural Experiences in the United States	3
ES 3	Introduction to Chicana(o) and Latina(o) Cultures	3

Suggested coursework not required for the major: ECON 20; SOC 20; PS 4, 11, 80.
* 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 and to the Associate Degree – General Education Requirements in this catalog for specific courses which meet general education requirements.

Horticulture/Landscape Design

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:

Course ID	Title	Units
HORT 20	Introduction to Horticultural Science	4
HORT 112	Plant Propagation	3
HORT 113	Soils and Fertilizers	3
	TOTAL UNITS FOR THE AWARD:	10

General Landscape Design
Occupational Skills Award

The General Landscape Design Occupational Skills Award encourages students to acquire a comprehensive overview of the drawing, design, and construction materials used by landscape designers. Students completing our program will exhibit competency in hand drafting techniques, the ability to express landscape concepts with plant materials, and hardscape construction principles. The skills acquired will also enhance the ability of students to provide landscaping assistance to customers of retail and wholesale nurseries as well as residential landscape design industries.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate fundamental skills in the process and techniques of landscape design.
- Demonstrate an understanding of hardscape construction materials and construction processes.
- Demonstrate the skills necessary for employment in the field of residential landscape design and construction.

REQUIRED CORE:

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 109	Introduction to Planting Design	3
HORT 130	Hardscape and Construction Materials Fundamentals	3
	TOTAL UNITS FOR THE AWARD:	9

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. This skill set will support students to gain entry level employment in nurseries (both wholesale and retail), tree care companies, landscape maintenance companies, and more.

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 CORE

Course ID	Title	Units
HORT 10	Plant Materials-Ornamental	3
HORT 11	Plant Materials-Edibles	3
HORT 166	Native Plants in the Urban Landscape	2
	TOTAL UNITS FOR THE AWARD:	**8**

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 CORE:

Course ID	Title	Units
HORT 10	Plant Materials-Ornamental	3
HORT 11	Plant Materials-Edibles	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
	Choose one course from each Group	3-6
Group 1:		
HORT 110	Introduction to Urban Farming	3
HORT 111	Introduction to Permaculture	2
HORT 138	The Sustainable Landscape	3
HORT 144	Licensure for the Landscape Contractor	2
Group 2:		

HORT 140	Business Aspects in Horticulture and Landscape	3
HORT 166	Native Plants in the Urban Landscape	2
HORT 238	Introduction to Wellness Gardening	3
CWE 180 †	Co-Op-Ed-Hort & Landscape	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

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 CORE:

Course ID	Title	Units
HORT 10	Plant Materials-Ornamental	3
HORT 11	Plant Materials-Edibles	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
	Choose one course from each Group	3-6
Group 1:		
HORT 110	Introduction to Urban Farming	3
HORT 111	Introduction to Permaculture	2
HORT 138	The Sustainable Landscape	3
HORT 144	Licensure for the Landscape Contractor	2
Group 2:		
HORT 140	Business Aspects in Horticulture and Landscape	3
HORT 166	Native Plants in the Urban Landscape	2
HORT 238	Introduction to Wellness Gardening	3
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.

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 CORE:

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials-Ornamental	3
HORT 106	Landscape CAD-Fundamentals	3
HORT 109	Introduction to Planting Design	3
HORT 115	History of Landscape Design	3
HORT 116	Irrigation Design Fundamentals	3
HORT 130	Hardscape and Construction Materials Fundamentals	3
	Choose one course from each Group	2-6
	TOTAL UNITS FOR THE MAJOR	**23-27**
Group 1:		
HORT 139	Contemporary Landscape Design Trends	3
HORT 140	Business Aspects in Horticulture and Landscape	3
HORT 142	Introduction to Design Technology	1
HORT 145A	Landscape Design-Native Garden	2
HORT 145B	Landscape Design-Edible Garden	2
HORT 145C	Landscape Design-Wellness Garden	2
HORT 238	Introduction to Wellness Gardening	3
Group 2:		
HORT 138	The Sustainable Landscape	3
HORT 144	Licensure for the Landscape Contractor	2
HORT 146	Landscape Design Portfolio Development	1
HORT 239	Feng Shui and Well Being	2
CWE 180 †	Co-Op-Ed-Hort & Landscape	1

† 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.

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 CORE:

Course ID	Title	Units
HORT 7	Introduction to Landscape Design	3
HORT 10	Plant Materials-Ornamental	3
HORT 106	Landscape CAD-Fundamentals	3
HORT 109	Introduction to Planting Design	3
HORT 115	History of Landscape Design	3
HORT 116	Irrigation Design Fundamentals	3
HORT 130	Hardscape and Construction Materials Fundamentals	3
	Choose one course from each Group	2-6
TOTAL UNITS FOR THE CERTIFICATE		**23-27**
Group 1		
HORT 139	Contemporary Landscape Design Trends	3
HORT 140	Business Aspects in Horticulture and Landscape	3
HORT 142	Introduction to Design Technology	1
HORT 145A	Landscape Design-Native Garden	2
HORT 145B	Landscape Design-Edible Garden	2
HORT 145C	Landscape Design-Wellness Garden	2
HORT 238	Introduction to Wellness Gardening	3
Group 2		
HORT 138	The Sustainable Landscape	3
HORT 144	Licensure for the Landscape Contractor	2
HORT 146	Landscape Design Portfolio Development	1
HORT 239	Feng Shui and Well Being	2
CWE 180 †	Co-Op-Ed-Hort & Landscape	1

† CWE 180 should be taken after completing at least 9 units of the Sustainable Landscape Design program

Urban Farming
Certificate of Achievement

Sustainability is a key component of our Urban Farming Certificate of Achievement program. Thriving, localized food economies benefit the health of the people, the planet, and the communities surrounding them. Sustainable urban farming is among several fields of study that are uniquely poised to capture opportunities presented by an increasing awareness of the need to preserve and protect limited resources. The goals of the Urban Farming Certificate of Achievement program are to provide enhanced opportunities for those striving to acquire knowledge of sustainable farming practices in an urban environment, based on the principles of sustainability. We seek also to support quality technical instruction, career and skill enhancement as well as lifelong learning for members of the community.

Our program prepares students for careers such as director of community sourced agriculture (CSA), public market manager, urban farmer, grower, farm educational adviser, garden designer, horticultural consultant, supervisor of landscaping, and food systems production and distribution. Careers also include opportunities in the production and care of fruits, nuts, and vegetables commonly used in landscape design, urban farming, wellness gardens, and plant nurseries.

Through our program students will be able to achieve occupational competencies such as strong leadership, communication skills, planning and managerial expertise, and knowledge-based consultation.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Grow, harvest, and distribute organic vegetables and fruits, based on principles of sustainable propagation.
- Demonstrate a range of technical farming skills (e.g., composting, trellising, cover cropping, post-harvest handling).
- Identify strategies for being sustainable with organic edibles and physical and mental well-being.

REQUIRED CORE

Course ID	Title	Units
HORT 110	Introduction to Urban Farming	3
HORT 111	Introduction to Permaculture	2
HORT 113	Soils and Fertilizers	3
HORT 120	Integrated Pest Management	3
HORT 145B	Landscape Design-Edible Garden	2
	TOTAL UNITS FOR THE CERTIFICATE:	**13**

Wellness Gardening
Certificate of Achievement

Sustainability is a key component of our Wellness Gardening Certificate of Achievement program, which is based on horticultural science and technology. It prepares students for careers such as directors of wellness gardens, sustainable horticulture consultants, garden designers, and herbs, fruit, nut, vegetable, and ornamental plant propagation and maintenance commonly used in wellness gardens. Research supports the implementation of wellness gardens as a strategy to improve and promote human well-being for persons of all ages.

Opportunities to connect with nature in a thriving wellness garden benefit the mental and physical health of the people, the ecology, and the communities surrounding them.

Through our program students will be able to achieve occupational competencies such as strong leadership, communication skills, planning and managerial expertise, and knowledge-based consultation.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Provide consultation on the health benefits of wellness gardens.
- Design aesthetic landscape places that contribute to sound body, mind, and spirit of its human participants.
- Demonstrate an ability to craft policies promoting healthy garden and landscapes that are integral to an entities wellness program.

Required Core

Course ID	Title	Units
HORT 138	The Sustainable Landscape	3
HORT 139	Contemporary Landscape Design Trends	3
HORT 145C	Landscape Design-Wellness Garden	2
HORT 238	Introduction to Wellness Gardening	3
HORT 239	Feng Shui and Well Being	2
	TOTAL UNITS FOR THE CERTIFICATE	**13**

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 of Science

The Alcohol and Drug Studies program is accredited by the California Association for Alcohol and Drug Educators (CAADE) and it 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 Fieldwork and Seminar I [HS 110] (Beginning Practicum) course 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 to review the Alcohol and Drug Studies Roadmap. Fieldwork and Seminar Information Sessions are scheduled at the end of the Fall and Spring semesters to inform students of the application process for HS 110. Check the Human Services website for the dates and times.

The application process is competitive, and completion of an application does not guarantee acceptance into the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course may self enroll in the Fieldwork & Seminar II [HS 150] (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.

REQUIRED CORE COURSES:

Course ID	Title	Units
HS 100 *	Introduction to Human Services	3
HS 101	Addiction Studies Counseling Skills	3
HS 105	Ethical Issues and Clients' Rights	3
HS 110 *	Field Instruction and Seminar I	3.5
HS 120 *	Human Development in the Social Environment	3
HS 140	Group Leadership and Group Process	3

Course ID	Title	Units
HS 150 *	Field Instruction and Seminar II	3.5
HS 170	Alcohol and Other Drugs in our Society	3
HS 171	Substance Abuse - Intervention, Treatment and Recovery	3
HS 172 *	Physiological Effects and Pharmacology of Alcohol and Drugs	3
HS 174	Case Administration, Crisis Intervention and Referral	3
HS 176 *	Co-Occurring Disorders	3
	Restricted Electives	3
	TOTAL UNITS FOR THE MAJOR:	**40**
Restricted Electives: Students are required to choose one restricted elective		
HS 112 *	Conflict Resolution and Mediation	3
HS 128	Community-Based Corrections	3
HS 131	Multicultural and Diverse Populations in the United States	3
HS 175	Substance Abuse Education, Prevention, and Intervention	3
HS 177	Family Dynamics of Addiction and Abuse	3
HS 182 *	Substance Abuse Treatment in Children and Adolescents	3
HS 220	Benefits and Entitlement	3

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

Associate 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.

Alcohol and Drug Studies
Certificate of Achievement

The Alcohol and Drug Studies program is accredited by the California Association for Alcohol and Drug Educators (CAADE) and it 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 Fieldwork and Seminar I [HS 110] (Beginning Practicum) course 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 to review the Alcohol and Drug Studies Roadmap. Fieldwork and Seminar Information Sessions are scheduled at the end of the Fall and Spring semesters to inform students of the application process for HS 110. Check the Human Services website for the dates and times.

The application process is competitive, and completion of an application does not guarantee acceptance into the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course may selfenroll in the Fieldwork & Seminar II [HS 150] (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.

REQUIRED CORE COURSES:

Course ID	Title	Units
HS 100 *	Introduction to Human Services	3
HS 101	Addiction Studies Counseling Skills	3
HS 105	Ethical Issues and Clients' Rights	3
HS 110 *	Field Instruction and Seminar I	3.5
HS 120 *	Human Development in the Social Environment	3
HS 150 *	Field Instruction and Seminar II	3.5
HS 170	Alcohol and Other Drugs in our Society	3
HS 171	Substance Abuse - Intervention, Treatment and Recovery	3
HS 140	Group Leadership and Group Process	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:		**40**
Restricted Electives: Students are required to choose one restricted elective		
HS 112 *	Conflict Resolution and Mediation	3
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.

Community-Based Corrections
Occupational Skills Award

The Occupational Skills Award (OSA) for Community Based Corrections Studies is a 12-unit program that will allow students the opportunity to achieve completion of the OSA within one year. It provides students with theory and historical and contemporary aspects of social control and state and federal mandates of early release programs. Students will learn criminogenic risk factors and pro-social assessments and factors related to reducing recidivism rates. Students will be introduced to the Collaborative Court Systems' alternative sentencing programs. Exposure to and evaluation of community-based and residential programs to assist adults, adolescents, and families transitioning back into society will be explored. The OSA can supplement any area of study. Students completing the OSA may find employment in probation, parole, youth facilitates including juvenile counseling settings, juvenile correctional detention centers, the California Youth Authority, half-way houses and more.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Identify criminogenic risk and protective factors that exacerbate or mitigate criminal behaviors
- Describe theoretical concepts of criminology
- Identify and differentiate the various collaborative course systems in the U.S.
- Identify the historical aspects of the U.S. Criminal Justice System

REQUIRED COURSES:

Course ID	Title	Units
HS 37	Introduction to Criminology	3
HS 119	Introduction of Criminal Justice System	3
HS 128	Community-Based Corrections	3
HS 187	Juvenile Violence, Gangs, and Victimization	3
TOTAL UNITS FOR THE AWARD:		**12**

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:

Course ID	Title	Units
HS 181	Introduction to Eating Disorders	3
HS 184 *	Medical Aspects of Eating Disorders	3
HS 185 *	The Background and Treatment of Eating Disorders	3
	TOTAL UNITS FOR THIS AWARD:	**9**

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

Human Services Generalist
Associate of Science

The Human Services (HS) Generalist Associate of Science 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 four-year college degrees in field of 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 Fieldwork and Seminar I [HS 110] (Beginning Practicum) course 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 to review the HS Generalist Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled at the end of the Fall and Spring semesters to inform students of the application process for HS 110. Check the Human Services website for the dates and times.

The application process is competitive, and completion of an application does not guarantee acceptance into the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course may selfenroll in the Fieldwork & Seminar II [HS 150] (Advanced Practicum) course.

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 105	Ethical Issues and Client's Rights	3
HS 110 *	Field Instruction and Seminar I	3.5
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 150 *	Field Instruction and Seminar II	3.5
HS 170	Alcohol and Other Drugs in our Society	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
	Restricted Electives	3
TOTAL UNITS FOR THE MAJOR:		**37**
Restricted Electives: Select 3 Units from the following		
HS 112 *	Conflict Resolution and Mediation	3
HS 171	Substance Abuse - Intervention, Treatment and Recovery	3
HS 172 *	Physiological Effects and Pharmacology of Alcohol	3
HS 187	Juvenile Violence, Gangs, and Victimization	3
HS 220	Benefits and Entitlement	3
SOC 1 *or*	Introduction to Sociology	3
SOC 1H	Honors Introduction to Sociology	3
SOC 10	Introduction to Marriage and the Family	3
COUN 150	Helping Skills for Interpersonal Relationships	3
PSYC 25 *	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.

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 Fieldwork and Seminar I [HS 110] (Beginning Practicum) course 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 to review the HS Generalist Roadmap chart. Fieldwork and Seminar Information Sessions are scheduled at the end of the Fall and Spring semesters to inform students of the application process for HS 110. Check the Human Services website for the dates and times.

The application process is competitive, and completion of an application does not guarantee acceptance into the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course. A minimum grade of "C" in all courses is required to receive the certificate. Students who successfully complete the Fieldwork and Seminar I [HS 110] (Beginning Practicum) course may self-enroll in the Fieldwork & Seminar II [HS 150] (Advanced Practicum) course

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 105	Ethical Issues and Client's Rights	3
HS 110 *	Field Instruction and Seminar I	3.5
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 150 *	Field Instruction and Seminar II	3.5
HS 170	Alcohol and Other Drugs in our Society	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
	Restricted Electives	3
TOTAL UNITS FOR THE CERTIFICATE:		**37**
Restricted Electives: Select 3 Units from the following		
HS 112 *	Conflict Resolution and Mediation	3
HS 171	Substance Abuse - Intervention, Treatment and Recovery	3
HS 172 *	Physiological Effects and Pharmacology of Alcohol and Drugs	3
HS 187	Juvenile Violence, Gangs, and Victimization	3
HS 220	Benefits and Entitlement	3
SOC 1 *or*	Introduction to Sociology	3
SOC 1H	Honors Introduction to Sociology	3
SOC 10	Introduction to Marriage and the Family	3
COUN 150	Helping Skills for Interpersonal Relationship	3
PSYC 25 *	Psychology of Aging	3

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

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 issue 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 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.

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 105	Ethical Issues and Clients' 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
	TOTAL UNITS FOR THE MAJOR:	**29**

*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.

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 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.

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 105	Ethical Issues and Clients' Rights	3
HS 131	Multicultural and Diverse Population 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
	TOTAL UNITS FOR THE CERTIFICATE:	**29**

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

Humanities

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.

CORE REQUIRED COURSES:

Course ID	Title	Units
HUM 1 *	Introduction to Humanities	3
HIST 4	World History to 1500	3
HIST 5	World History Since 1500	3
	Restricted Electives	9
	TOTAL UNITS FOR THE MAJOR:	**18**
Restricted Electives: Select 3 courses		
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
HON 11H *	Honors Culture, Science, Society - Renaissance	3
HON 12H *	Honors Culture, Science, Society - The Postmodern World	3
HON 13H *	Honors Culture, Science, Society - Power, Resistance, Empire	3
HON 14H *	Honors Culture, Science, Society - Transformation of Empire	3
PHIL 1 * or	Introduction to Philosophy	3
PHIL 1H *	Honors Introduction to Philosophy	3

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.

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:

Course ID	Title	Units
ID 110	Fundamentals of Interior Design	3
ID 111 *	Interior Design Studio I	3
ID 112	Beginning Drafting for Interiors	3
ID 114	Applied Color and Design Theory for Interior Design	3
ID 115 *	CAD for Interior Design	3
ID 116	Interior Materials and Products	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3
FASH 31	Textiles	3
ARCH 124A	Architectural Drawing I	4
ID 121	Space Planning	3
ID 123 *	Interior Design Illustration	3
ID 126 *	Interior Design Studio II	3
ID 127 *	Fundamentals of Lighting	3
ID 131 *	Digital Visualization for Interior Design	3
	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:

Course ID	Title	Units
ID 110	Fundamentals of Interior Design	3
ID 111 *	Interior Design Studio I	3
ID 112	Beginning Drafting for Interiors	3
ID 114	Applied Color and Design Theory for Interior Design	3
ID 115 *	CAD for Interior Design	3
ID 116	Interior Materials and Products	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3
	TOTAL UNITS FOR THE CERTIFICATE:	**24**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Associate Degree will be awarded for Level II only.

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:

Course ID	Title	Units
ID 110	Fundamentals of Interior Design	3
ID 111 *	Interior Design Studio I	3
ID 112	Beginning Drafting for Interiors	3
ID 114	Applied Color and Design Theory for Interior Design	3
ID 115 *	CAD for Interior Design	3
ID 116	Interior Materials and Products	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3

Course ID	Title	Units
FASH 31	Textiles	3
ARCH 124A	Architectural Drawing I	4
ID 121 *	Space Planning	3
ID 123 *	Interior Design Illustration	3
ID 126 *	Interior Design Studio II	3
ID 127 *	Fundamentals of Lighting	3
ID 131 *	Digital Visualization for Interior Design	3
	TOTAL UNITS FOR THE CERTIFICATE:	**46**

Associate Degree will be awarded for Level II only.

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

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:

Course ID	Title	Units
ID 110	Fundamentals of Interior Design	3
ID 111 *	Interior Design Studio I	3
ID 112	Beginning Drafting for Interiors	3
ID 114	Applied Color and Design Theory for Interior Design	3
ID 115 *	CAD for Interior Design	3
ID 116	Interior Materials and Products	3
ID 122	History of Interior Architecture and Furnishings I	3
ID 125	History of Interior Architecture and Furnishings II	3
FASH 31	Textiles	3
ARCH 124A	Architectural Drawing I	4
ID 121 *	Space Planning	3
ID 123 *	Interior Design Illustration	3
ID 126 *	Interior Design Studio II	3
ID 127 *	Fundamentals of Lighting	3
ID 131 *	Digital Visualization for Interior Design	3
ID 128 *	Business and Professional Practice for Interior Design	3
ID 129	Interior Design Internship	1
ID 132	Codes and Specifications for Interior Design	3
ID 133 *	Rendering and Rapid Visualization for Interior Design	3
ID 134 *	Advanced CAD for Interior Design	3
CWE 180	Co-Op-Ed Interior Design	1
	TOTAL UNITS FOR THE CERTIFICATE:	**60**

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

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:

Course ID	Title	Units
ARAB 1 *	Elementary Arabic	5
ARAB 2 *	Elementary Arabic	5
ARAB 3 *	Intermediate Arabic	5
ARAB 4 *	Intermediate Arabic	5
ARAB 10 * or	Intermediate Conversational Arabic	3
ARAB 21 *	Introduction to Arabic Culture	3
ARAB 901 *	Arabic Language Lab	0.5
ARAB 902 *	Arabic Language Lab	0.5
ARAB 903 *	Arabic Language Lab	0.5
ARAB 904 *	Arabic Language Lab	0.5
	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.

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

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:

Course ID	Title	Units
CHI 1 *	Elementary Chinese	5
CHI 2 *	Elementary Chinese	5
CHI 3 *	Intermediate Chinese	5
CHI 4 *	Intermediate Chinese	5
CHI 21 *	Introduction to Chinese Culture and Influence in the U.S.	3
CHI 901 *	Chinese Language Lab	0.5
CHI 902*	Chinese Language Lab	0.5
CHI 903 *	Chinese Language Lab	0.5
CHI 904 *	Chinese Language Lab	0.5
	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:

Course ID	Title	Units
FR 1 *	Elementary French	5
FR 2 *	Elementary French	5
FR 3 *	Intermediate French	5
FR 4 *	Intermediate French	5
FR 10 * *or*	Intermediate Conversational French	3
FR 21 *	Introduction to French Language and Culture	3

Course ID	Title	Units
FR 901 *	French Language Lab	0.5
FR 902 *	French Language Lab	0.5
FR 903 *	French Language Lab	0.5
FR 904 *	French Language Lab	0.5
	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.

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

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:

Course ID	Title	Units
GER 1 *	Elementary German	5
GER 2 *	Elementary German	5
GER 3 *	Intermediate German	5
GER 4 *	Intermediate German	5
GER 21	Introduction to German Culture	3
GER 901 *	German Language Lab	0.50
GER 902 *	German Language Lab	0.50
GER 903 *	German Language Lab	0.50
GER 904 *	German Language Lab	0.50
	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.
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

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:

Course ID	Title	Units
ITA 1 *	Elementary Italian	5
ITA 2 *	Elementary Italian	5
ITA 3 *	Intermediate Italian	5
ITA 4 *	Intermediate Italian	5
ITA 21 *	Introduction to Italian Culture	3
ITA 901 *	Italian Language Lab	0.5
ITA 902 *	Italian Language Lab	0.5
ITA 903 *	Italian Language Lab	0.5
ITA 904 *	Italian Language Lab	0.5
	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.

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

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:

Course ID	Title	Units
JA 1 *	Elementary Japanese	5
JA 2 *	Elementary Japanese	5
JA 3 *	Intermediate Japanese	5
JA 4 *	Intermediate Japanese	5
JA 21 *	Introduction to Japanese Culture	3
JA 901 *	Japanese Language Lab	0.5
JA 902 *	Japanese Language Lab	0.5
JA 903 *	Japanese Language Lab	0.5
JA 904 *	Japanese Language Lab	0.5
	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.

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

<div align="center">

Persian
Associate of Arts

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The curriculum in the Persian program is designed to provide the student the opportunity to achieve an Associate in Arts in Persian degree by providing the necessary breadth in the field. Students who complete the Associate in Arts Degree in Persian will have more opportunities in government, business, medicine, law, technology, industry, marketing and other related fields.

An Persian 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, all of which lead to an appreciation of cultural diversity. The curriculum in the Persian program is designed to provide the student the opportunity to achieve an Associate in Arts (AA) in Persian degree.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Accurately interpret written sections in Persian.
- Accurately interpret spoken language in Persian.
- Develop proficient conversational skills in Persian.
- Demonstrate knowledge of the history, politics, literature, culture and arts of the Persian speaking countries as well as people who speak Persian.

REQUIRED CORE

Course ID	Title	Units
PRSN 1 *	Elementary Persian	5
PRSN 2 *	Elementary Persian	5
PRSN 3 *	Intermediate Persian	5
PRSN 4 *	Intermediate Persian	5

PRSN 21 *	Introduction to Persian Culture	3
PRSN 901 *	Persian Language Lab	.50
PRSN 902 *	Persian Language Lab	.50
PRSN 903 *	Persian Language Lab	.50
PRSN 904 *	Persian Language Lab	.50
	TOTAL UNITS FOR THE MAJOR:	25

*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.

<h1 style="text-align:center">Spanish
Associate in Arts</h1>

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:

Course ID	Title	Units
SPAN 1 * or	Elementary Spanish	5
SPAN 1H *	Honors Elementary Spanish	5
SPAN 2 * or	Elementary Spanish	5
SPAN 2H *	Honors Elementary Spanish	5
SPAN 3 *	Intermediate Spanish	5
SPAN 4 *	Intermediate Spanish	5
	Select one course from Restricted Electives	3
	TOTAL UNITS FOR THE MAJOR:	23
RESTRICTED ELECTIVES		
SPAN 6 *	Intermediate Spanish Grammar And Composition	3
SPAN 10 *	Intermediate Conversational Spanish	3
SPAN 11 *	Advanced Conversational Spanish	3
SPAN 20A *	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A *	Civilization of Latin America through 900	3
SPAN 21B *	Civilization of Latin American 1900-Present	3
SPAN 21C *	Hispanic Culture and Literature In the United States	3

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

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

Program Student Learning Outcomes
Students who complete this program will be able to:
- Accurately interpret written sections in Spanish.
- Accurately interpret spoken language in Spanish.
- Converse proficiently in Spanish.
- Demonstrate knowledge of culture and history of Spanish speaking people.

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 COURSES:

Course ID	Title	Units
SPAN 1 *or*	Elementary Spanish	5
SPAN 1H	Honors Elementary Spanish	5
SPAN 2 * *or*	Elementary Spanish	5
SPAN 2H *	Honors Elementary Spanish	5
SPAN 3 *	Intermediate Spanish	5
SPAN 4 *	Intermediate Spanish	5
Group A: Select one of the following courses (3-4 units)		
SPAN 6 *	Intermediate Spanish Grammar & Composition	3
SPAN 10 *	Intermediate Conversational Spanish	3
SPAN 20A *	Civilization of Spain through 1898	3
SPAN 20B*	Civilization of Spain 1898 to Present	3
SPAN 21A *	Civilization of Latin America through 1900	3
SPAN 21B *	Civilization of Latin America 1900-Present	3
SPAN 21C *	Hispanic Culture and Literature In the United States	3
	TOTAL UNITS FOR THE MAJOR:	**23**

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

Journalism

Journalism
Associate in Arts for Transfer

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 (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 COURSES:

Course ID	Title	Units
JRN 1 *or*	Mass Media and Society	3
CTVR 1	Mass Media and Society	3
JRN 2 *	News Writing	3
JRN 111 * *or*	News Media Production and Editing	4
JRN 112 *	News Media Production, Blogging and Social Media	4
Group A:		
JRN 106 *	Video Journalism	3
Group B: Select two of the following courses		
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
ECON 4 * *or*	Principles (Micro)	3
ECON 4H * *or*	Honors Principles of Microeconomics	3
ECON 2 * *or*	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
PS 1 *or*	American Government	3

Course ID	Title	Units
PS 1H	Honors American Government	3
PS 12	Comparative Politics and Government	3
ENG 1B * or	Principles of Composition II	3
ENG 1BH * or	Honors Principles of Composition II	3
ENG 70	Reasoning and College Reading	3
PHIL 12	Introduction to Logic	3
COMM 3 *	Argumentation and Debate	3
ANTH 2 or	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
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 * or	Principles of Composition I	4
ENG 1AH *	Honors Principles of Composition I	4
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
PHOT 25	History of Photography	3
SL 1 *	American Sign Language I	4
SPAN 1 or	Elementary Spanish	5
SPAN 1H	Honors Elementary Spanish	5
COMM 1 or	Communication Fundamentals	3
COMM 1H	Honors Communication Fundamentals	3
GSS 10 or	Introduction to Women's Studies	3
GSS 10H	Honors intro to Women's Studies	3
	TOTAL UNITS FOR THE MAJOR:	**19-24**

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

Digital Media
Certificate of Achievement

The curriculum in the Digital Media Certificate of Achievement 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 program at Saddleback College seeks to give students an understanding of the media industry and the First Amendment. Students develop their reporting and editing skills for a variety of media platforms, public relations, and new and emerging businesses in media and related industries.

In production courses, students receive hands-on training producing multi-dimensional content for student media publications on a variety of platforms. In skills classes, students learn the fundamentals of producing media content, interviewing, reporting, writing stories, news judgment, visual journalism, and social media and are introduced to media law, ethics, and professional standards. An emphasis is placed on emerging technology

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:

Course ID	Title	Units
JRN 1 *or*	Mass Media and Society	3
CTVR 1	Mass Media and Society	3
JRN 2 *	News Writing	3
CTVR 106 * *or*	Video Journalism	3
JRN 106 *	Video Journalism	3
JRN 111 *£ *or*	News Media Production and Editing	4
JRN 112 *£	News Media Production, Blogging and Social Media	4
	Restricted Electives	6-10
TOTAL UNITS FOR THE CERTIFICATE:		**19-23**
Restricted Electives: 6-10 Units - Any 3-4 courses from the following not already used from above:		
CTVR 101	Video Production Basics	3
JRN 105	Feature Writing	3
JRN 108 *	Intro to Podcasting and Audio Storytelling	3
JRN 111 *£	News Medic Production and Editing	4
JRN 112 *£	News Media Production, Blogging and Social Media	4
JRN 125	Magazine Journalism	3
CWE 180	Co-Op-Ed Journalism	1
CWE 180	Co-Op-Ed Journalism	2

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

£ Course can be taken as either a core requirement or restricted elective; it may not be counted as both.

Journalism & New Media
Associate of Science

The curriculum in the Journalism and New Media 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.

Journalism and New Media program at Saddleback College seeks to give students an understanding of the media industry and First Amendment. Students develop their reporting and editing skills for a variety of media 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 media publications on a variety of platforms. In skills classes, students learn the fundamentals of producing media content, interviewing, reporting, writing stories, news judgment, visual journalism, and social media and are introduced to media law, ethics, and professional standards. An emphasis is placed on emerging technology.

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:

Course ID	Title	Units
JRN 1 *or*	Mass Media and Society	3
CTVR 1	Mass Media and Society	3
JRN 2 *	News Writing	3
CTVR 106 * *or*	Video Journalism	3
JRN 106 *	Video Journalism	3
JRN 111 *£ *or*	News Media Production and Editing	4
JRN 112 *£	News Media Production, Blogging and Social Media	4
	Restricted Electives	6-10
	TOTAL UNITS FOR THE MAJOR:	**19-23**
Restricted Electives: 6-10 Units - Any 3-4 courses from the following not already used from above:		
CTVR 101	Video Production Basics	3
JRN 105	Feature Writing	3
JRN 108 *	Intro to Podcasting and Audio Storytelling	3
JRN 111 *£	News Media Production and Editing	4
JRN 112 *£	News Media Production, Blogging and Social Media	4
JRN 125 *	Magazine Journalism	3
CWE 180	Co-Op-Ed Journalism	1
CWE 180	Co-Op-Ed Journalism	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
£ Course can be taken as either a core requirement or restricted elective; it may not be counted as both.

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: JRN 106*, JRN 110*; PHOT 50, PHOT 55*.

Kinesiology

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 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 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.

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:

Course ID	Title	Units
KNES 51	Introduction to Kinesiology	3
BIO 11 *	Human Anatomy	4
BIO 12 * *and*	Human Physiology	4
Select a maximum of one course each from any three of the following movement-based course areas (3-4.5 units):		
Aquatics		
KNES 41 *or*	Swimming for Nonswimmers	1
KNES 41	Swimming for Nonswimmers	1.5
KNES 42 * *or*	Intermediate Swimming	1
KNES 42 *	Intermediate Swimming	1.5
KNES 44 * *or*	Aquatic Conditioning	1
KNES 44 *	Aquatic Conditioning	1.5
Combatives		
KNES 90	Beginning Self-Defense	1
KNES 93	Beginning Karate	1
Fitness		
KNES 1 *or*	Cardiovascular Conditioning	1
KNES 1	Cardiovascular Conditioning	1.5
KNES 8 *or*	Beginning Cardio Kickboxing	1
KNES 8	Beginning Cardio Kickboxing	1.5
KNES 50 *or*	Aerobic Dance	1
KNES 50	Aerobic Dance	1.5
KNES 65 *or*	Introduction to Mat Pilates	1
KNES 65	Introduction to Mat Pilates	1.5
Individual Sports		
KNES 20	Beginning Golf I	1
KNES 24 *or*	Beginning Tennis I	1
KNES 24	Beginning Tennis I	1.5
KNES 25 * *or*	Beginning Tennis II	1
KNES 25 *	Beginning Tennis II	1.5
KNES 26 * *or*	Intermediate Tennis	1
KNES 26 *	Intermediate Tennis	1.5
Team Sports		
KNES 70 *or*	Basketball	1
KNES 70	Basketball	1.5
KNES 71 * *or*	Advanced Basketball	1
KNES 71 *	Advanced Basketball	1.5
KNES 72 *or*	Beginning Soccer	1

Course ID	Title	Units
KNES 72	Beginning Soccer	1.5
KNES 76	Beginning Volleyball	1
KNES 77 *	Intermediate Volleyball	1
KNES 81	Beginning Beach Volleyball	1
List A: Select two courses (7-10 units) from the following:		
MATH 10 * or	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
BIO 20	Introduction to Biology	4
CHEM 108 or	Introduction to General, Organic, and Biochemistry	4
CHEM 1A *	General Chemistry	5
PHYS 2A * or	Introduction to Physics	5
PHYS 4A *	General Physics	5
TOTAL UNITS FOR THE MAJOR:		**21-25.5**

*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 into majors such as Kinesiology with an Option in Fitness at CSU Long Beach, 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 CORE:

Course ID	Title	Units
FN 50 ►	Fundamentals of Nutrition	3
HLTH 1 or	Contemporary Health Issues	3
HLTH 3	Women's Health Issues	3
HLTH 2	First Aid, CPR, and Automated External Defibrillator	1.5
KNES 51	Introduction to Kinesiology	3
KNES 52	Fundamentals of Human Movement	3
BIO 20	Introduction to Biology	0-4
or		
One year of high school biology with a grade of "C" or better		
BIO 11 *►	Human Anatomy	4
PSYC 1 ► or	Introduction to Psychology	3
PSYC 1H ►	Honors Introduction to Psychology	3
	Select One Course from Training and Theory	3
	Required Movement Based Skill Courses	4
	Select One Additional Movement Based Skill Course From the Provided List	1-1.5
TOTAL UNITS FOR THE MAJOR:		**28.5-33**
Training and Theory (3 units):		

Course ID	Title	Units
KNES 53	Introduction to Athletic Training	3
KNES 54 *	Principles and Fundamentals of Coaching	3
KNES 105	Mental Skills for Sports Performance	3
Required Movement Based Skill Courses: Select 4 Courses from the Following in at Least 4 Areas (4 units)		
Aquatics		
KNES 41 << or	Swimming for Nonswimmers	1
KNES 42 *<<	Intermediate Swimming	1
KNES 44 *	Aquatic Conditioning	1
KNES 49	Aqua Aerobics	1
Combative		
KNES 90	Beginning Self-Defense	1
KNES 93	Beginning Karate	1
Fitness		
KNES 1	Cardiovascular Conditioning	1
KNES 4	Beginning Weight Lifting	1
KNES 28	Beginning Yoga	1
KNES 68 *	Walking for Fitness	1
Individual Sports		
KNES 17	Beginning Bowling	1
KNES 20	Beginning Golf I	1
KNES 24	Beginning Tennis I	1
KNES 25	Beginning Tennis II	1
Team Sports		
KNES 70	Basketball	1
KNES 72	Beginning Soccer	1
KNES 76	Beginning Volleyball	1
KNES 77 *	Intermediate Volleyball	1
KNES 78 *	Advanced Volleyball	1
KNES 81	Beginning Beach Volleyball	1
Select One Additional Movement Based Skill Course from the Following Six Categories (1-1.5 units):		
Aquatics		
KNES 41 or KNES 41 <<	Swimming for Nonswimmers	1-1.5
KNES 42* or KNES 42*<<	Intermediate Swimming	1-1.5
KNES 43* or KNES 43*	Advanced Swimming and Diving	1-1.5
KNES 44* or KNES 44*	Aquatic Conditioning	1-1.5
KNES 49 or KNES 49	Aqua Aerobics	1-1.5
Combative		
KNES 90	Beginning Self-Defense	1
KNES 91*	Intermediate Self-Defense	1
KNES 93	Beginning Karate	1
KNES 97*	Intermediate Karate	1
KNES 199	Street Martial Arts	1
Fitness		
KNES 1 or KNES 1	Cardiovascular Conditioning	1-1.5
KNES 3 or KNES 3	Circuit Weight Training	1-1.5
KNES 4 or KNES 4	Beginning Weight Lifting	1-1.5
KNES 5* or KNES 5 *	Intermediate Weight Lifting	1-1.5

Course ID	Title	Units
KNES 6* *or* KNES 6 *	Advanced Weight Lifting	1-1.5
KNES 8 *or* KNES 8	Beginning Cardio Kickboxing	1-1.5
KNES 9 *or* KNES 9	Stretching, Flexibility, and Conditioning	1-1.5
KNES 10 *or* KNES 10	Cross Training	1-1.5
KNES 28 *or* KNES 28	Beginning Yoga	1-1.5
KNES 31 *or* KNES 31	Muscle Toning for Women	1-1.5
KNES 38* *or* KNES 38 *	Intermediate Mat Pilates	1-1.5
KNES 39* *or* KNES 39 *	Intermediate Yoga	1-1.5
KNES 40* *or* KNES 40 *	Advanced Yoga	1-1.5
KNES 65 *or* KNES 65	Introduction to Mat Pilates	1-1.5
KNES 66 *or* KNES 66	Core Training	1-1.5
KNES 68*	Walking for Fitness	1
KNES 107	Fitness Assessment and Survey	1
Individual Sports		
KNES 17	Beginning Bowling	1
KNES 18*	Intermediate Bowling	1
KNES 19 *or* KNES 19	Beginning Cycling and Spinning	1-1.5
KNES 20	Beginning Golf I	1
KNES 21*	Beginning Golf II	1
KNES 22*	Intermediate Golf	1
KNES 23*	Advanced Golf	1
KNES 24 *or* KNES 24	Beginning Tennis I	1-1.5
KNES 25 * *or* KNES 25 *	Beginning Tennis II	1-1.5
KNES 26 * *or* KNES 26 *	Intermediate Tennis	1-1.5
KNES 27 * *or* KNES 27 *	Advanced Tennis	1-1.5
KNES 35 *	Intermediate Surfing	1
KNES 36 *	Advanced Surfing	1
KNES 63	Beginning Rock Climbing	1
KNES 88 *	Intermediate Rock Climbing	1
KNES 89 *	Advanced Rock Climbing	1
Team Sports		
KNES 70 *or* KNES 70	Basketball	1-1.5
KNES 71 * *or* KNES 71 *	Advanced Basketball	1-1.5
KNES 72 *or* KNES 72	Beginning Soccer	1-1.5
KNES 73 * *or* KNES 73 *	Advanced Soccer	1-1.5
KNES 76	Beginning Volleyball	1
KNES 77 *	Intermediate Volleyball	1
KNES 78 *	Advanced Volleyball	1
KNES 81	Beginning Beach Volleyball	1
KNES 84 *	Intermediate Beach Volleyball	1
KNES 175	Futsal-Indoor Soccer	1

►A grade of C or better is required.

*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 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.

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 Clinics and provides foundational preparation for students interested in Athletic Training programs. Skills learned in this program are additionally valuable to students interested in such professions as fitness trainer, coach, or teacher in the physical education and kinesiology field. Students will learn basic exercise physiology, be able to identify common athletic injuries and causes, and be able to apply specific stretching, strengthening, and rehabilitation techniques for preventive and rehabilitative care. In addition, students will become cardiopulmonary resuscitation (CPR) and automated external defibrillator (AED) certified and learn how to write subjective, objective, assessment, and plan (SOAP) notes and injury reports.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Identify the basic fundamentals of physiology.
- Demonstrate an understanding of exercise physiology and the biomechanics of human movement.
- Recognize and describe the signs and symptoms of emergency situations and athletic injuries.
- Demonstrate proper response procedures to emergency situations and athletic injuries.
- Apply preventative and rehabilitative techniques for common sports conditions and various athletic injuries.

REQUIRED CORE:

Course ID	Title	Units
HLTH 2	First Aid, CPR, and Automated External Defibrillator	1.5
KNES 52	Fundamentals of Human Movement	3
KNES 53	Introduction to Athletic Training	3
KNES 56 * or	Practicum in Athletic Training - Fall Sports	2
KNES 59 *	Practicum in Athletic Training - Spring Sports	2
	TOTAL UNITS FOR THE AWARD:	9.5

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

Coaching
Occupational Skills Award

This Occupational Skills Award is designed to prepare students for gaining employment in coaching in a scholastic setting, support students' ability to earn coaching certification through the CIF-Southern Section, learn about sports management in youth sports at community centers and work in after school programs, and/or city and state sports activity programs. Students who complete the program will have the ability to assess sports-related injuries and first aid and explore the career opportunities in the fields of teaching, coaching, allied health, and fitness professions. They will be able to demonstrate knowledge and understanding of concepts and techniques of coaching and apply psychological foundations for enhancing sports performance. In addition, students will become cardiopulmonary resuscitation (CPR) and automated external defibrillator (AED) certified. 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:
- Assess sports-related injuries and apply first aid.
- Understand the concepts and techniques of coaching.
- Apply psychological foundations for enhancing sports performance.

REQUIRED CORE:

Course ID	Title	Units
HLTH 2	First Aid, CPR, and Automated External Defibrillator	1.5
KNES 51	Introduction to Kinesiology	3
KNES 53	Introduction to Athletic Training	3
KNES 54 *	Principles and Fundamentals of Coaching	3
KNES 105	Mental Skills for Sports Performance	3
	TOTAL UNITS FOR THE AWARD:	13.5

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

Holistic Health Studies
Certificate of Achievement

Designed to promote a holistic approach to healthy living while preparing students for professional careers and the potential of higher education in the integrative health, fitness, and wellness field. Students will investigate basic anatomy, physiology, subtle energy, and behavior principles while exploring the connection between the physical, intellectual, emotional, and spiritual realms of health, wellness, and performance. Students will be introduced to a variety of alternative health practices and healing therapies from various cultures around the world, with an emphasis on how a holistic approach and practical techniques can lead to optimal performance and health. Upon completion of this certificate, individuals will gain an advantage obtaining an entry-level position at health, fitness, and wellness centers, spas and clinics, and/or community establishments. In addition to administrative jobs within the industry, individuals may find positions as practitioner and/or therapist assistants, health and wellness educators or community workers, and/or internship opportunities at various complementary and alternative health practices/centers. Courses within this certification can fulfill continuing education hours/credits for those currently certified by nationally and globally recognized certifying bodies such as the American Council of Exercise (ACE) and Yoga Alliance (YA). This certificate can be completed completely online. Students whom complete this certificate will be eligible to earn our, "Integrative Health for Fitness and Wellness Professionals" certificate, by successfully completing three additional courses within one of three pattern options.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate an understanding of contemporary health principles and guidelines.
- Explain core principles and philosophies of the holistic paradigm.
- Explain basic anatomy, physiology, subtle energy, and behavior principles through a holistic perspective.
- Describe foundational principles and unique techniques used in well-established complementary and alternative health practices and explain how they can be beneficial to various fitness, performance, health, and wellness professions.
- Demonstrate practical holistic health techniques for optimal performance, health, and wellness.
- Create a customized fitness, health, and wellness plan using holistic health principles and techniques.

REQUIRED CORE

Course ID	Title	Units
HLTH 1	Contemporary Health Issues	3
KNES 220	Holistic Health – Underlying Mechanisms	3
KNES 121	Complementary and Alternative Health Practices	3
KNES 222	Introduction to Ayurveda	3
KNES 207	Training and Theory of the Yogic Energy System	1
	TOTAL UNITS FOR THE CERTIFICATE:	13

Integrative Health for Fitness and Wellness Professionals
Certificate of Achievement

Designed to supplement a variety of health, fitness, and wellness professionals with contemporary knowledge, integrative concepts, and alternative practices for optimal performance and health, as well as job placement and career advancement. Students will explore the connection between the physical, intellectual, emotional, and spiritual dimensions of health and wellness through a holistic approach to anatomy, physiology, subtle energy, human behavior, and environmental interactions. Courses will introduce complementary and alternative health practices and examine various preventative techniques and healing therapies used around the world. Within the provided pattern options, students are given the opportunity to further their knowledge in a variety of fields and competencies such as, yoga and aerobic exercise, fitness and sports performance, nutrition, psychology, and sociology. Courses will promote positive behavioral, social, and lifestyle changes while preparing individuals for professional careers and/or greater education within the fitness, health, and wellness industry. In addition to an advantage obtaining entry-level job positions at fitness, health and wellness centers, training facilities and studios, and alternative health care practices, upon completion of this certificate, individuals will gain an opportunity to start or advance in such careers/professions as (but not limited to), yoga instructor and/or continuing educational provider, aerobics instructor, personal trainer, fitness and performance specialist, and/or health and wellness coaching. Courses within this certification can fulfill continuing education hours/credits for those currently certified by nationally and globally recognized certifying bodies such as the American Council of Exercise (ACE) and Yoga Alliance (YA). Students who have completed the Holistic Health Studies certificate of achievement need only to complete one of the three pattern/emphasis options (each requiring three courses) to obtain this higher valued certificate. This certificate can also be completed fully online through the General Health and Wellness Emphasis pattern option.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate an understanding of contemporary health principles and how they can be applied within a holistic paradigm.
- Explain basic anatomy, physiology, subtle energy and behavioral principles though a holistic perspective while demonstrating an understanding of the effects of social and environmental factors.
- Describe core principles and techniques used in a variety of complementary and alternative health practices and demonstrate how they can be appropriately integrated into a selection of fitness and wellness professions.
- Identify integrative health principles, techniques, and practices that are highly beneficial for individuals and professionals in emphasized occupations within the fitness and wellness field.
- Create a customized integrative health plan within a specific occupation of fitness, performance, health, and wellness.
- Explain the importance and benefits of a having an integrative health education background and the positive impact it can have within a variety of fitness, health, and wellness occupations.

REQUIRED CORE

Course ID	Title	Units
HLTH 1	Contemporary Health Issues	3
KNES 220	Holistic Health - Underlying Mechanisms	3
KNES 121	Complementary and Alternative Health Practices	3
KNES 222	Introduction to Ayurveda	3
KNES 207	Training and Theory of the Yogic Energy System	1
	Select One Pattern from Restricted Electives	8-9
	TOTAL UNITS FOR THE CERTIFICATE:	**21-22**
Restricted Electives		
Pattern 1: Yoga and Aerobic Exercise Emphasis (9 units)		
KNES 60 *	Anatomy and Fundamentals of Yoga	3
KNES 61 *	Teaching of Yoga	3
KNES 62	Philosophy of Yoga	3
Pattern 2: Fitness and Performance Emphasis (8 units)		
KNES 110	Theory and Techniques of Personal Training	3
KNES 112	The Profession of Personal Training	2
KNES 105 *or*	Mental Skills for Sports Performance	3
FN 164	Sports Nutrition	3
Pattern 3: General Health and Wellness Emphasis (9 units)		
FN 50	Fundamentals of Nutrition	3
PSYC 30 * *or*	Social Psychology	3
SOC 30 *	Social Psychology	3
And Select 3 units from the following courses		
FN 160	Nutrition, Weight Management, and Eating Disorders	3
FN 164	Sports Nutrition	3
FN 169 *	Lifecycle Nutrition	3
KNES 60 *	Anatomy and Fundamentals of Yoga	3
KNES 110	Theory and Techniques of Personal Training	3
KNES 105	Mental Skills for Sports Performance	3
PSYC 33	Psychology of Adjustment	3
PSYC 25 *	Psychology of Aging	3

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

Personal Training Specialist
Certificate of Achievement

This certificate is designed for students interested in the field of personal training and fitness instruction. Students completing this certification will learn the fundamentals of exercise science, theory and application techniques for various modes of fitness training, how to perform fitness assessments, the effects of social, psychological, and behavioral factors on training, basics of sports nutrition, and how to create personalized training programs. Upon completion of this certification program, students will be prepared for entry-level personal training and fitness specialist positions in fitness clubs, health and wellness centers, educational institutes, and community establishments. Courses in this program also prepare students to further their certification through the nationally recognized, American Council on Exercise (ACE).

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate an understanding of basic exercise science.
- Demonstrate an understanding of various techniques and modes of fitness training.
- Explain the effects of various social, psychological, and behavioral factors on health, wellness, and fitness training.
- Design a personalized training program that meets the needs and desires of an individual.
- Demonstrate an understanding of business policies and legal guidelines.
- Identify health and safety concerns and respond with the appropriate care and/or procedures.

REQUIRED CORE

Course ID	Title	Units
KNES 110	Theory and Techniques of Personal Training	3
KNES 112	The Profession of Personal Training	2
HLTH 2	First Aid, CPR, and Automated External Defibrillator	1.5
	Select Two Courses from Restricted Electives	2-3
	TOTAL UNITS FOR THE CERTIFICATE	**8.5-9.5**

RESTRICTED ELECTIVES		
KNES 1 *or* KNES 1	Cardiovascular Conditioning	1-1.5
KNES 2	Strength Training	1.5
KNES 3 *or* KNES 3	Circuit Weight Training	1-1.5
KNES 4 *or* KNES 4	Beginning Weight Lifting	1-1.5
KNES 5 * *or* KNES 5 *	Intermediate Weight Lifting	1-1.5
KNES 6 * *or* KNES 6 *	Advanced Weight Lifting	1-1.5
KNES 10 *or* KNES 10	Cross Training	1-1.5
KNES 31 *or* KNES 31	Muscle Toning for Women	1-1.5
KNES 66 *or* KNES 66	Core Training	1-1.5

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

Yoga Instructor
Certificate of Achievement

The Yoga Instructor Certificate of Achievement 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 Instructor Certificate, students will be eligible to apply for their Yoga Alliance 200-hour instructor certification and will be prepared for employment as a trained yoga teacher in public and private settings. Yoga Alliance is the largest and most influential governing body in the yoga field, thus providing our Yoga Instructor 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:
- Explain and demonstrate basic skills of practicing Hatha yoga.
- Identify anatomical structures and explain the biomechanics of asanas.
- Demonstrate skills for instructing yoga, including developing sequences, verbal cueing, providing variations, modifications, and adjustments.
- Illustrate stress management techniques though use of pranayama and asanas.
- Describe the philosophy of yoga through history, the development of the asanas and major lineages of yoga.

REQUIRED CORE

Course ID	Title	Units
KNES 60 *	Anatomy and Fundamentals of Yoga	3
KNES 61 *	Teaching of Yoga	3
KNES 62	Philosophy of Yoga	3
	Select two courses from Restricted Electives	2-3
	TOTAL UNITS FOR THE CERTIFICATE	**11-12**
RESTRICTED ELECTIVES		
KNES 28 *or*	Beginning Yoga	1
KNES 28	Beginning Yoga	1.5
KNES 39 * *or*	Intermediate Yoga	1
KNES 39 *	Intermediate Yoga	1.5
KNES 40 * *or*	Advanced Yoga	1
KNES 40 *	Advanced Yoga	1.5
DANC 28	Yoga for Dancers	1.5

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

Mathematics

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:

Course ID	Title	Units
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
MATH 3B *	Analytic Geometry and Calculus	5
MATH 3C *	Analytic Geometry and Calculus	5
List A: Select One of the Following Courses (4 units)		
MATH 24 *	Elementary Differential Equations	4
MATH 26 *	Introduction to Linear Algebra	4
List B: Select One of the Following Courses (3-5 units)		
PHYS 4A *	General Physics	5
MATH 10 *	Introduction to Statistics	3
	TOTAL UNITS FOR THE MAJOR:	**22-24**

*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:

Course ID	Title	Units
MATH 124 *	Trigonometry	3
MATH 2 *	Pre-Calculus Mathematics	5
First Year		
MATH 3A * *or*	Analytic Geometry and Calculus	5
MATH 3AH *	Honors Analytic Geometry and Calculus	5
Second Year		
MATH 3B *	Analytic Geometry and Calculus	5
MATH 3C *	Analytic Geometry and Calculus	5
MATH 24 *	Elementary Differential Equations	4
MATH 26 *	Introduction to Linear Algebra	4
	Select from Restricted Electives	3.5
TOTAL UNITS FOR THE MAJOR:		**26.5-34.5**
Restricted Electives: Select one of the following courses		
CS 1B * *or*	Introduction to Computer Science II	3.5
CS 4A *	Introduction to Java for Computer Science	3.5

*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.

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

The Administrative Medical Assistant program prepares the student for employment as an administrative (front office) medical assistant in a physician's office, clinic or outpatient center. This certificate program is designed to help meet industry demand by offering education and training on soft skills, appointment scheduling, reception duties, managing patient medical records, insurance authorizations, reimbursement and coding for the medical office or clinic. Students complete a 150 hours of supervised training in a medical office or clinic. Proof of medical malpractice insurance, current Basic Life Support (BLS) CPR certification and health clearance are required for the clinical experience. All students complete a background check and drug screening prior to enrolling in MA 217A. A minimum grade of "C" in all courses is required. Letter grade only. Upon completion of this certificate program, students may sit for the California Certification Board of Medical Assistant (CCMBA) certification examination (CCMA) and the American Academy of Professional Coder (AAPC), Certified Practice Coder (CPC) certification examination. Several courses also articulate into the Healthcare Technology Optimization Specialty certificate program, which affords additional career training in healthcare.

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

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
MA 217A *	Medical Assisting Clinical Experience--Administrative	3
	Restricted Electives	3
TOTAL UNITS FOR THE CERTIFICATE:		**27**
Restricted Electives: Select one course from the following:		
HSC 230	Certified Professional Coder (CPC) Exam Preparation	3
HSC 234	Certified Coding Specialist (CCS) Exam Preparation	3
CIM 112	Microsoft Office	3

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

Clinical Medical Assistant
Certificate of Achievement

The Clinical Medical Assistant certificate is a Career Technical Education (CTE) program that includes competency based training to prepare to assist the physician in the medical back office or clinic. Students are taught and demonstrate skills including: electrocardiography (ECG), specimen collection, venipuncture, capillary puncture, medication administration, injections, medical, surgical asepsis, preparing and assisting with minor office surgery and physical examination procedures. Students practice documentation ensuring accurate data collection, quality results and regulatory compliance. Several courses are shared with health science and may apply towards earning the Associate Degree in Health Science.

Students complete 150 hours of supervised directed practice in the back office of a medical office or clinic. All courses must be completed with a grade of C or better. Proof of medical malpractice insurance, current Basic Life Support (BLS) CPR certification, health clearance, background check and drug screening are required prior to the clinical externship, MA 217B. Letter grade only.

Program completion meets California Certifying Board for Medical Assistant certification examination requirements (CCBMA).

Clinical experience (MA 217B) must be taken the session immediately following MA 212B and MA 214B due to patient safety requirements. Students should take, MA 211B, MA 213B prior to taking MA 212B and MA 214B.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate clinical procedure skills, accurately and safely.
- Recognize and understand legal and ethical practices related to medical care.
- Demonstrate employable medical office skills and professionalism.

REQUIRED COURSES:

Course ID	Title	Units
HSC 104	Medical Terminology	3
HSC 106	Legal and Ethical Aspects of Health Information	3
MA 206	Introduction to Medical Assisting	3
MA 280	Healthcare Organization Practices	3
MA 211B	Physical-Examination Procedures	3
MA 213B *	Medical Asepsis and Surgical Procedures	3
MA 212B	Medical Office Laboratory Procedures	3
MA 214B	Medication Administration Procedures	3
MA 218B	Electrocardiography for the Medical Assistant	3
MA 217B *	Medical Assisting Clinical Experience Clinical	3
	TOTAL UNITS FOR THE CERTIFICATE:	**30**

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

Comprehensive Medical Assistant
Certificate of Achievement

This Career Technical Education (CTE) certificate program includes instruction and skills training on competencies for entry level employment working in the front office or back office as a medical assistant. Students learn and demonstrate essential skills: medical office procedures, appointment scheduling, reception techniques, communication, medical records and electronic health records management, data entry, billing, coding, insurance reimbursement, laboratory procedures (including venipuncture, pharmacology, injections), electrocardiography, spirometry, 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. All students complete a background check and drug screen three months prior to enrolling in MA 217C and are required to hold Basic Life Support (BLS) CPR certification (AHA approved with AED) and a certificate of medical malpractice, throughout the externship. During the externship students complete 150 hours of non-paid supervised training to demonstrate basic medical front office and clinical back office skills and competencies.

The comprehensive medical assistant program meets the California Certifying Board for Medical Assistants requirements to sit for the California Certified Medical Assistant exam (CCMA) and the American Academy of Professional Coders (AAPC), Certified Professional Coder (CPC) certification exam. Letter grade only. Students may begin the program in the Summer, Fall or Spring and there are no prerequisites to enroll in the program. Material fees are kept to a minimum, there is a fee paid to an outside vendor for the final HESI online examination during the externship. Students in the clinical area are required to purchase a stethoscope, sphygmomanometer for the physical examination procedure course and a uniform is required for the externship. All fees are less than $400.00 for the entire program.

Students in the comprehensive medical assistant program may meet the Associate of Science Degree in Health Sciences graduation requirements as outline in the catalog, students are encouraged to discuss these requirements with their assigned academic counselor.

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.

Course ID	Title	Units
HSC 104	Medical Terminology	3
HSC 106	Legal and Ethical Aspects of Health Information	3
HSC 107	Human Body Fundamentals	3
MA 206	Introduction to Medical Assisting	3
MA 211B	Physical-Examination Procedures	3
MA 213B	Medical ASEPSIS and Surgical Procedures	3
MA 212B	Medical Office Laboratory Procedures	3
MA 214B	Medication Administration Procedures	3

Course ID	Title	Units
MA 217C *	Medical-Assisting Clinical Experience Comprehensive	3
MA 218B	Electrocardiography for the Medical Assistant	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
	Restricted Electives	3
	TOTAL UNITS FOR THE CERTIFICATE:	**42**
Restricted Electives: Select one course from the following:		
HSC 230	Certified Professional Coder (CPC) Exam Preparation	3
HSC 234	Certified Coding Specialist (CCS) Exam Preparation	3
CIM 112	Microsoft Office	3

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

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 assign 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), the Certified Coding Specialist (CCS) 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, medical research organizations and other healthcare settings. This program is part of a multidirectional pathways that include the Health Information Technology, Healthcare Technology Optimization Specialist, and the Medical Assisting programs.

- 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 heath 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 software applications in coding, reimbursement, and revenue cycle management.
- Apply diagnosis/procedure codes according to current nomenclature and guidelines.
- Ensure accuracy of diagnostic/procedural groupings.
- Resolve discrepancies between coded data and supporting documentation.

Course ID	Title	Units
HSC 104	Medical Terminology	3
HIT 100	Health Information Science	2
HSC 107 *	Human Body Fundamentals	3
HSC 106	Legal and Ethical Aspects of Health Information	3

Course ID	Title	Units
HSC 108 *	Disease Processes for the Health Sciences	3
HIT 109 *	ICD Diagnostic Coding	3
HIT 110 *	ICD Procedure Coding	2
HIT 115 *	CPT and Ambulatory Care Coding	3
HIT 122	Reimbursement Methodologies	3
HIT 222 *	Advanced Coding Applications	4
	Restricted Electives	3-4
TOTAL UNITS FOR THE CERTIFICATE:		**32-33**
Restricted Elective: Select 3-4 units from the following		
HSC 234	Certified Coding Specialist (CCS) Exam Preparation	3
HSC 230	Certified Professional Coder (CPC) Exam Preparation	3
CIM 10	Introduction to Information Systems	3
CIM 1	Computer Information Systems	4

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

Medical Insurance Billing
Occupational Skills Award

Completion of the occupational skills award in Medical Insurance Billing provides the student/incumbent worker with skills required for employment in a physician's office, medical clinic or as an independent consultant specializing in medical insurance billing and coding. The curriculum allows for academic growth and mobility leading towards an associate degree in Health Sciences or Health Information Technology. Competencies include developing a working knowledge of various insurance plans, processing of claims, authorizations, billing, collections and diagnostic coding for the medical office.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate skills leading to an increase in employability.
- Demonstrate skills related to processing claims using a variety of health insurance plans.
- Demonstrate legal and ethical practices related to medical billing.

REQUIRED CORE:

Course ID	Title	Units
MA 280	Healthcare Organization Practices	3
HSC 104	Medical Terminology	3
MA 224A	Basics of Medical Insurance, Billing and Reimbursement	3
MA 282	Fundamentals of Medical Practice Coding	3
HSC 106	Legal and Ethical Aspects of Health Information	3
TOTAL UNITS FOR THE AWARD:		**15**

Medical Scribe
Certificate of Achievement

The Medical Scribe Certificate of Achievement program prepares students to assist licensed medical professionals with administrative duties especially related to documentation in the electronic medical record, customer service and increasing efficiency in patient care delivery. This program is designed to build upon knowledge of biological sciences, basic knowledge of common diseases, routine clinical patient care and workflow in healthcare settings. The medical scribe enables real-time clinical documentation and data input from information gathered at point of care under the direction of a licensed health care provider and maintains accurate electronic health records for the benefit of clinicians, healthcare staff and patients. Successful completion of this certificate prepares students for clinical experience that leads to employment and certification as Certified Medical Scribe Specialists (CMSS), Certified Medical Scribe Apprentices (CMSA), Medical Scribes (MS), and Virtual Scribes (VS).

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate the knowledge, skills and behaviors of a competent entry level medical scribe specialist.
- Apply the knowledge of medical sciences (medical terminology, anatomy/physiology, pathology, and pharmacology) to accurately collect real-time documentation.

- Adhere to principles of legal, ethical, accreditation and certification standards as they relate to health information.
- Demonstrate the speed and accuracy relating to the completion of health record documentation.
- Demonstrate the ability to work effectively as an individual and collaboratively in a group to collect and compile accurate health record documentation.

Course ID	Title	Units
HSC 104	Medical Terminology	3
HSC 106	Legal and Ethical Aspects of Health Information	3
HSC 107 * or	Human Body Fundamentals	3
BIO 11 * or	Human Anatomy	4
BIO 12 *	Human Physiology	4
HSC 108 * or	Disease Processes for the Health Sciences	3
BIO 45 * or	Biology of Human Disease	3
BIO 112 *	Pathophysiology	3
MA 280	Healthcare Organization Practice	3
CIM 121B * or	Keyboarding for Computers - Intermediate	1.5
CIM 121C *	Keyboarding for Computers - Advanced	1.5
TOTAL UNITS FOR THE CERTIFICATE:		**16.5-17.5**

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

Medical Lab Technology

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.

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 * *or*	Intermediate Algebra	5
MATH 205 *	Math for the Associate Degree	3
REQUIRED COURSES:		
MLT 210	Introduction to the Clinical Laboratory Profession	1
MLT 211 *	Basic Laboratory Procedures	1
PHLB 240 * *and*	Phlebotomy	4
CWE 180 *	Co-Op-Ed Phlebotomist	2
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
	TOTAL UNITS FOR THE MAJOR:	**54-56**

*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.

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, 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.

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 * *or*	Intermediate Algebra	5
MATH 205 *	Math for the Associate Degree	3
REQUIRED COURSES:		
MLT 210	Introduction to the Clinical Laboratory Profession	1
MLT 211 *	Basic Laboratory Procedures	1
PHLB 240 * *and*	Phlebotomy	4
CWE 180 *	Co-Op-Ed Phlebotomist	2
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
TOTAL UNITS FOR THE CERTIFICATE:		**54-56**

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

Music

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.

Course ID	Title	Units
Required Core (15 Units)		
MUS 1 ♦	The Basics of Music	3
MUS 10 *	Harmony I	3
MUS 11 *	Harmony II	3
MUS 12 *	Harmony III	3
MUS 92 *	Musicianship I	1
MUS 93 *	Musicianship II	1
MUS 94 *	Musicianship III	1
Applied Music: Four semesters required (4 units)		
MUS 50 *	Applied Music	1
Large Ensemble: Four semesters required (8 units)		
Two semesters must be selected from either of the following courses (4 units):		
MUS 35 *♦ *or*	Contemporary Choir	2
MUS 47 *♦	Saddleback College Big Band	2
Two Additional semesters may be selected from any of the following courses (4 units):		
MUS 35 *	Contemporary Choir	2
MUS 41 *	Symphonic Wind Ensemble	2
MUS 42 *	Symphonic Orchestra	2
MUS 47 *	Saddleback College Big Band	2
	TOTAL UNITS FOR THE MAJOR:	**27**

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

♦ 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.

<div align="center">

Music
Associate of Arts

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The curriculum in the Associate of Arts degree 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 CORE:

Course ID	Title	Units
MUS 10 *	Harmony I	3
MUS 11 *	Harmony II	3
MUS 12 *	Harmony III	3
MUS 92 *	Musicianship I	1
MUS 93 *	Musicianship II	1
MUS 94 *	Musicianship III	1
MUS 54A	Beginning Piano I (or proficiency exam)	0-2
MUS 54B *	Beginning Piano II (or proficiency exam)	0-2
MUS 55A *	Intermediate Piano I (or proficiency exam)	0-2
MUS 55B *	Intermediate Piano II (or proficiency exam)	0-2
Ensemble Requirement: Complete four semesters (4-8 units) from the following (including repeated classes)		
MUS 35 *	Contemporary Choir	2
MUS 39 *	Commercial Music Ensemble	2
MUS 41 *	Symphonic Wind Ensemble	2
MUS 42 *	Symphonic Orchestra	2
MUS 47 *	Saddleback College Big Band	2
MUS 61 *	Intermediate Classical Guitar	1
MUS 62 *	Advanced Classical Guitar	2
MUS 64 *	Piano Ensemble	1.5
MUS 65 *	Piano Accompanying	1.5
MUS 140 *	Improvised Music in a Jazz Combo	2
MUS 148	Jazz Ensemble	2
MUS 182	Soul Music Ensemble	2
MUS 184 *	Electronic Music Ensemble	2
MUS 187 *	Modern Rock and Pop Music Ensemble	2
MUS 197 *	Rehearsal and Performance (Jazz Studies)	1
Restricted Electives: Select 4-6 units from the following courses		
MUS 14 *	Jazz Composition and Arranging	3
MUS 15 *	Music Composition	3
MUS 50 *	Applied Music (may be taken up to 4 times)	1
MUS 18 *	Advanced Music Composition	3
MUS 117 *	Popular Songwriting	3
MUS 118	Digital Multi-Track Music Recording	2.5
MUS 130	Music Production I	2.5
MUS 132	Introduction to Music Technology	2
	TOTAL UNITS FOR THE MAJOR:	**20-34**

*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.

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 equip 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 and performing rights organizations.
- Compare models for digital music monetization and self-promotion.

REQUIRED CORE:

Course ID	Title	Units
MUS 120	Introduction to the Music Industry	3
MUS 130	Music Production I	2.5
MUS 118	Digital Multi-Track Music Recording	2.5
MUS 131 *	Music Production II	2
	Select from Restricted Electives	2-3
	TOTAL UNITS FOR THE CERTIFICATE:	**12-13**
Restricted Electives		
MUS 1	The Basics of Music	3
MUS 10 *	Harmony I	3
MUS 54A	Beginning Piano I	2
CWE 180	Co-Op-Ed Commercial Music	2

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

Music Production
Occupational Skills Award

Provides students with entry-level skills for employment in the fields of music production, film/tv/game composition, live performance, sound design, music editing and music recording. Students will use industry-recognized software to create, edit and perform music. The OSA also provides students with the music business knowledge necessary to promote their work.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Operate a digital audio workstation and setup software and hardware.
- Use midi and virtual instruments.
- Create music using Ableton Live.
- Edit music using Ableton Live.
- Perform music using Ableton Live and a midi controller.
- Describe various roles in the music industry.
- Explain how to publish, market and promote musical compositions.

REQUIRED COURSES:

Course ID	Title	Units
MUS 130	Music Production I	2.5
MUS 131 *	Music Production II	2
MUS 120	Introduction to the Music Industry	3
	TOTAL UNITS FOR THE AWARD:	**7.5**

Nursing

The 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 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.

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

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.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Demonstrate sufficient preparation to pass the NCLEX upon first attempt.
- Promote and maintain a safe environment by integrating current evidence-based practice, the nursing process, and skill competency to deliver quality health care.
- Demonstrate the knowledge, skills, and attitudes required of the professional nurse as defined by the California Nurse Practice Act and standards of nursing practice.

Course ID	Title	Units
Required prerequisites prior to Nursing Clinical Sequence:		
BIO 11 *	Human Anatomy	4
BIO 15 *	General Microbiology	5
BIO 12 */***	Human Physiology	4
ENG 1A */**** *or*	Principles of Composition I	4
ENG 1AH */****	Honors Principles of Composition I	4
	TOTAL PREREQUISITE UNITS:	**17**
Eligible for Entry into Nursing Clinical Sequence		
Semester I		
N 160 */**	Pharmacology for Nursing	3
N 165 **	Lifecycle 1, Fundamentals of Aging	1.5
N 170 *	Nursing Process	3
N 170 *#	Nursing Process Lab	4.5
N 171 *	Mental Health Nursing	2
N 171 *#	Mental Health Nursing Lab	1
	Total Units for the Semester:	**15**
Semester II		
PSYC 1 ** *or*	Introduction to Psychology	3
PSYC 1H **	Honors Introduction to Psychology	3
N 161 **	Lifecycle 2, Growth and Development	1.5
N 172 *	Medical-Surgical Nursing	3.5
N 172 *#	Medical-Surgical Nursing Lab	5
	Total Units for the Semester:	**13**
Semester III		
N 173 *	Nursing Care of Children and Families	1.5
N 173 *#	Nursing Care of Children and Families Lab	2
N 174 *	Women's Health Nursing	1.5
N 174 *#	Women's Health Nursing Lab	2
	Total Units for the Semester:	**7**
Semester IV		
COMM 1 */** *or*	Communication Fundamentals	3
COMM 1H */** *or*	Honors Communication Fundamentals	3
COMM 5 **	Interpersonal Communication	3
N 176 *	Advanced Nursing	3
N 176 *#	Advanced Nursing Lab	5
	Total Units for the Semester:	**11**
	TOTAL UNITS FOR THE MAJOR:	**63**

*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.

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.

Registered Nurse
Certificate of Achievement

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.

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.

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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.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate sufficient preparation to pass the NCLEX upon first attempt.
- Promote and maintain a safe environment by integrating current evidence-based practice, the nursing process, and skill competency to deliver quality health care.
- Demonstrate the knowledge, skills, and attitudes required of the professional nurse as defined by the California Nurse Practice Act and standards of nursing practice.

Course ID	Title	Units
Required prerequisites prior to Nursing Clinical Sequence:		
BIO 11 *	Human Anatomy	4
BIO 15 *	General Microbiology	5
BIO 12 */***	Human Physiology	4
ENG 1A */**** *or*	Principles of Composition I	4
ENG 1AH */****	Honors Principles of Composition I	4
	TOTAL PREREQUISITE UNITS:	**17**
Eligible for Entry into Nursing Clinical Sequence		
Semester I		
N 160 */**	Pharmacology for Nursing	3
N 165 **	Lifecycle 1, Fundamentals of Aging	1.5
N 170 *	Nursing Process	3
N 170 *#	Nursing Process Lab	4.5
N 171 *	Mental Health Nursing	2
N 171 *#	Mental Health Nursing Lab	1
	Total Units for the Semester:	15
Semester II		
PSYC 1 ** *or*	Introduction to Psychology	3
PSYC 1H **	Honors Introduction to Psychology	3
N 161 **	Lifecycle 2, Growth and Development	1.5
N 172 *	Medical-Surgical Nursing	3.5
N 172 *#	Medical-Surgical Nursing Lab	5
	Total Units for the Semester:	13
Semester III		
N 173 *	Nursing Care of Children and Families	1.5
N 173 *#	Nursing Care of Children and Families Lab	2
N 174 *	Women's Health Nursing	1.5
N 174 *#	Women's Health Nursing Lab	2
	Total Units for the Semester:	7
Semester IV		
COMM 1 */** *or*	Communication Fundamentals	3
COMM 1H */** *or*	Honors Communication Fundamentals	3
COMM 5 **	Interpersonal Communication	3
N 176 *	Advanced Nursing	3
N 176 *#	Advanced Nursing Lab	5
	Total Units for the Semester:	**11**
	TOTAL UNITS FOR THE CERTIFICATE:	**63**

*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.

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:

Course ID	Title	Units
BIO 12 *	Human Physiology	4
BIO 15 *	General Microbiology	5
N 162 *	Successful Transition to Professional Nursing	1
N 162 *	Successful Transition to Professional Nursing Lab	0.5
Required Core Classes:		
N 165	Lifecycle 1, Fundamentals of Aging	1.5
N 171 *	Mental Health Nursing	2
N 171 *	Mental Health Nursing Lab	1

Course ID	Title	Units
N 173 *#	Nursing Care of Children and Families	1.5
N 173 *#	Nursing Care of Children and Families Lab	2
N 174 *#	Women's Health Nursing	1.5
N 174 *#	Women's Health Nursing Lab	2
N 176 *#¥	Advanced Nursing	3
N 176 *#¥	Advanced Nursing Lab	5
	TOTAL UNITS FOR THE CERTIFICATE:	**30**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
#Clinical course.
¥Fulfills the Management & Leadership and Advanced Medical-Surgical requirement.

Accreditation

The Nursing Program is approved by the California Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing (ACEN).

California Board of Registered Nursing (BRN)
P.O. Box 944210
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www.acenursing.org

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

Nutrition
Associate of Science

The Nutrition Associate of Science degree prepares students for a wide variety of employment opportunities involving the applications of fundamentals of nutrition. Employment possibilities include public agencies, day-care centers for the young and the elderly, food co-ops, recreational programs, pregnancy and weight management clinics, school food service, nutrition education programs in schools, health clubs, gyms and figure salons, health food and supplement stores, hospitals, nutritional supplement sales, and rehabilitation programs. 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 *or*	Consumer Issues	3
FCS 142	Life Management	3
FN 171 ❖ *or*	Sanitation and Safety	2
FN 210 ❖	ServSafe in Food Production	1
FN 50 †	Fundamentals of Nutrition	3
FN 110 *	Food Preparation Essentials	3
FN 165	Careers in Nutrition and Dietetics	1
CWE 180 †^	Co-Op-Ed Foods and Nutrition	1 (2)
	Select three course from Restricted Electives	9
	TOTAL UNITS FOR THE MAJOR	**21-23**

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 *	Clinical Nutrition	3
FN 169 *	Lifecycle Nutrition	3
FN 206	Sustainable Nutrition and Food Systems	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.

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 nutrition. Employment possibilities include public agencies, day-care centers for the young and the elderly, food co-ops, recreational programs, pregnancy and weight management clinics, school food service, nutrition education programs in schools, health clubs, gyms and figure salons, health food and supplement stores, hospitals, nutritional supplement sales, and rehabilitation programs. 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 *or*	Consumer Issues	3
FCS 142	Life Management	3
FN 171 ❖ *or*	Sanitation and Safety	2
FN 210 ❖	ServSafe in Food Production	1
FN 50 †	Fundamentals of Nutrition	3
FN 110 *	Food Preparation Essentials	3
FN 165	Careers in Nutrition and Dietetics	1
CWE 180 †^	Co-Op-Ed Foods and Nutrition	1 (2)
	Select three courses from Restricted Electives	9
TOTAL UNITS FOR THE CERTIFICATE:		**21-23**
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 *	Clinical Nutrition	3
FN 169 *	Lifecycle Nutrition	3
FN 206	Sustainable Nutrition and Food Systems	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 certificate.

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:
- Transfer to a CSU if pursuing a baccalaureate degree in Nutritional Sciences or similar major.
- Demonstrate a strong foundation in nutrition, culinary, psychology, and biological sciences necessary to pursue a 4- year degree and develop a successful career in Nutrition and Dietetics.

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 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
REQUIRED CORE: (16 Units)		
FN 50	Fundamentals of Nutrition	3
PSYC 1 *or*	Introduction to Psychology	3
PSYC 1H	Honors Introduction to Psychology	3
CHEM 1A *	General Chemistry	5
BIO 15	General Microbiology	5
List A: Select two courses (7-9 units)		
CHEM 12A *	Organic Chemistry	5
BIO 11 *	Human Anatomy	4
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
List B: Complete the following course (3 units)		
FN 110 *	Food Preparation Essentials	3
	TOTAL UNITS FOR THE MAJOR	**26-28**

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

Paramedic

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:

Course ID	Title	Units
PM 220 *†	Paramedic Theory	14
PM 230 *†	Paramedic Clinical Experience	7.5
PM 240 *†	Paramedic Field Internship	12
	TOTAL UNITS FOR THE MAJOR:	**33.5**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†A minimum grade of "B" is required.

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

To contact CoAEMSP:
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
(214) 703-8845
FAX (214) 703-8992
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:

Course ID	Title	Units
PM 220 *†	Paramedic Theory	14
PM 230 *†	Paramedic Clinical Experience	7.5
PM 240 *†	Paramedic Field Internship	12
	TOTAL UNITS FOR THE CERTIFICATE:	**33.5**

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

†A minimum grade of "B" is required.

Accreditation

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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

Philosophy

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.

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.

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.

Course ID	Title	Units
REQUIRED CORE: Select two (6 units)		
PHIL 12 *	Introduction to Logic	3
PHIL 1 * *or*	Introduction to Philosophy	3
PHIL 1H *	Honors Introduction to Philosophy	3
PHIL 15 *	Introduction to Ethics	3
List A: Select one (3 units)		
PHIL 5 *	History of Modern Philosophy	3
List B: Select two (6 units)		
HIST 62	European History to 1650	3
HIST 63	European History since 1650	3
PHIL 14 *	Philosophy of Religion	3
PHIL 10 *	World Religions	3
List C: Select one (3 units)		
HUM 1 *	Introduction to Humanities	3
	TOTAL UNITS FOR THE MAJOR:	**18**

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

Philosophy
Associate 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 * *or*	Introduction to Philosophy	3
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**
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.

Physics

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.

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 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

Course ID	Title	Units
PHYS 4A *	General Physics	5
PHYS 4B *	General Physics	5
PHYS 4C *	General Physics	5
MATH 3A *	Analytical Geometry and Calculus	5
MATH 3B *	Analytical Geometry and Calculus	5
MATH 3C *	Analytical Geometry and Calculus	5
	TOTAL UNITS FOR THE MAJOR:	**30**

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

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Physics
Associate of Science

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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.

REQUIRED CORE COURSES

Course ID	Title	Units
MATH 3A * or	Analytical Geometry and Calculus	5
MATH 3AH *	Honors Analytical Geometry and Calculus	5
PHYS 4A *	General Physics	5
MATH 3B *	Analytical Geometry and Calculus	5
PHYS 4B *	General Physics	5
PHYS 4C *	General Physics	5
	TOTAL UNITS FOR THE MAJOR:	**25**

*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.

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Political Science

Political Science
Associate in Arts for Transfer

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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.

REQUIRED COURSES

Course ID	Title	Units
PS 1 *or*	American Government	3
PS 1H	Honors American Government	3
List A: Select three (9 units)		
PS 10H	Honors Political Theory	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
PS 4	Introduction to Political Science	3
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
List B: Select two (6 units) Any List A course not already used.		
ECON 2 *or	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
ECON 4 * *or*	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
ANTH 2 *or*	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
ES 1	Multicultural Experiences 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 *or*	Introduction to Contemporary Africa	3
PS 80	Introduction to Contemporary Africa	3
HIST 81	African American History	3
SOC 1	Introduction to Sociology	3
WS 10 *or*	Introduction to Women's Studies	3
WS 10H	Honors Introduction to Women's Studies	3
	TOTAL UNITS FOR THE MAJOR:	**18**

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

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 *or*	American Government	3
PS 1H	Honors American Government	3
PS 4	Introduction to Political Science	3
PS 12	Comparative Politics and Government	3
PS 14	International Relations	3
	Select from Restricted Electives	6
	TOTAL UNITS FOR THE MAJOR:	**18**
RESTRICTED ELECTIVES: Select two courses		
ECON 2 * *or*	Principles (MACRO)	3
ECON 2H *	Honors Principles of Macroeconomics	3
ECON 4 * *or*	Principles (MICRO)	3
ECON 4H *	Honors Principles of Microeconomics	3
ECON 11 *or*	International Political Economy	3
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
PS 10H	Honors Political Theory	3
PS 80	Introduction to Contemporary Africa	3
SOC 1	Introduction to Sociology	3
SOC 1H	Honors 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.

Psychology

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.

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

Course ID	Title	Units
PSYC 44 * or	Statistics for the Behavioral Sciences	3
MATH 10 *	Introduction to Statistics	3
PSYC 1 or	Introduction to Psychology	3
PSYC 1H	Honors Introduction to Psychology	3
PSYC 2 * or	Research Methods in Psychology	3
PSYC 2H *	Honors Research Methods in Psychology	3
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 * or	Social Psychology	3
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.

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
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 skills necessary to become a Real Estate Salesman or Broker.

Course ID	Title	Units
RE 170	Real Estate Principles	3
RE 172	Real Estate Practices	3
	Select Broker Option (Must take all six courses) *or*	18
	Select Salesperson Option	12-13
	TOTAL UNITS FOR THE MAJOR	**18-24**
Broker Option (Students take all six courses)		
RE 174	Legal Aspect of Real Estate	3
RE 175	Real Estate Finance	3
RE 176A	Real Estate Appraisal I	3
RE 178	Real Estate Economics	3
RE 195	Property Management	3
RE 190	Escrow	3
	OR	
Salesperson Option: (Students select 4-5 courses for a minimum of 12 units)		
RE 174	Legal Aspect of Real Estate	3
RE 175	Real Estate Finance	3
RE 176A	Real Estate Appraisal I	3
RE 176B	Real Estate Appraisal II	3
RE 176C	Real Estate Appraisal III: Market Analysis and Studies	3
RE 178	Real Estate Economics	3
RE 190	Escrow	3
RE 195	Property Management	3
RE 202	Computer Applications in Real Estate	3
RE 255	Real Estate License Preparation	1
RE 280	Mortgage Loan Brokering and Lending	3

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.

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

Course ID	Title	Units
RE 170	Real Estate Principles	3
RE 172	Real Estate Practices	3
	Restricted Electives	6-7
TOTAL UNITS FOR THE CERTIFICATE		**12-13**
RESTRICTED ELECTIVES (Students select 2-3 courses)		
RE 174	Legal Aspects of Real Estate	
RE 175	Real Estate Finance	3
RE 176A	Real Estate Appraisal I	3
RE 176B	Real Estate Appraisal II	3
RE 176C	Real Estate Appraisal III Market Analysis and Studies	3
RE 178	Real Estate Economics	3
RE 190	Escrow	3
RE 195	Property Management	3
RE 202	Computer Applications in Real Estate	3
RE 255	Real Estate License Preparation	1
RE 280	Mortgage Loan Brokering and Lending	3

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

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

Course ID	Title	Units
RE 176A	Real Estate Appraisal I	3
RE 176B	Real Estate Appraisal II	3
RE 176C	Real Estate Appraisal III Market Analysis and Studies	3
RE 200	Uniform Standards of Professional Appraisal Practice (USPAP)	1.5
RE 174	Legal Aspects of Real Estate	3
RE 175	Real Estate Finance	3
RE 170	Real Estate Principles	3
	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 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

Course ID	Title	Units
RE 176A	Real Estate Appraisal I	3
RE 176B	Real Estate Appraisal II	3
RE 176C	Real Estate Appraisal III Market Analysis and Studies	3
RE 200	Uniform Standards of Professional Appraisal Practice (USPAP)	1.5
	Restricted Electives	3
	TOTAL UNITS FOR THE CERTIFICATE	**13.5**
RESTRICTED ELECTIVES:		
RE 174	Legal Aspects of Real Estate	3

RE 175	Real Estate Finance	3
RE 170	Real Estate Principles	3

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

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

Course ID	Title	Units
CIM 120	Computer Literacy	1.5
CIM 121A	Keyboarding for Computers - Beginning	1.5
RE 170	Real Estate Principles	3
RE 172	Real Estate Practices	3
RE 174	Legal Aspects of Real Estate	3
RE 175	Real Estate Finance	3
RE 190	Escrow	3
	TOTAL UNITS FOR THE MAJOR:	18

*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: (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 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

Course ID	Title	Units
CIM 120	Computer Literacy	1.5
CIM 121A	Keyboarding for Computers - Beginning	1.5
RE 170	Real Estate Principles	3
RE 172	Real Estate Practice	3
RE 174	Legal Aspects of Real Estate	3
RE 175	Real Estate Finance	3
RE 190	Escrow	3
	TOTAL UNITS FOR THE CERTIFICATE	**18**

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

Sociology

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 (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.

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.

Course ID	Title	Units
SOC 1 *or*	Introduction to Sociology	3
SOC 1H	Honors Introduction to Sociology	3
SOC 2 *or*	Social Problems	3

SOC 2H	Honors Social Problems	3
MATH 10 * *or*	Introduction to Statistics	3
PSYC 44 *	Statistics for the Behavioral Sciences	3
Select two of the following courses (6 units)		
SOC 10	Introduction to Marriage and the Family	3
SOC 20	Ethnic Cultures of the United States	3
PSYC 30 **or*	Social Psychology	3
SOC 30 *	Social Psychology	3
Select one of the following courses or any of the courses not selected above (3 units)		
SOC 15	Socialization of the Child	3
SOC 21	Women in Contemporary Society	3
SOC 23	Food and Society	3
SOC 25	Social Stratification	3
SOC 125	Sociology of Aging	3
SOC 16	Death and Dying	3
SOC 180	Introduction to Aging	3
ANTH 2	Cultural Anthropology	3
ANTH 2H	Honors Cultural Anthropology	3
ENV 1	Introduction to Environmental Studies	3
GEOG 2 *or*	Cultural Geography	3
GEOG 2H	Honors Cultural Geography	3
PSYC 2 * *or*	Research Methods in Psychology	3
PSYC 2H *	Honors Research Methods in Psychology	3
GSS 10 *or*	Introduction to Women's Studies	3
GSS 10H	Honors Introduction to Women's Studies	3
	TOTAL UNITS FOR THE MAJOR:	**18**

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

Aging Studies
Certificate of Achievement

The Aging Studies Certificate 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 certificate aims to educate individuals seeking a career in the field of aging, pursuing advancement in their careers, and/or 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 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.
- Evaluate the family, government, and community support systems for diverse groups of aging individuals.
- Demonstrate knowledge and skills in one of the suggested pathways of study within the Aging Studies Certificate Program.

CORE/REQUIRED COURSES:

Course ID	Title	Units
SOC 180	Introduction to Aging	3
SOC 16	Death and Dying	3
PSYC 25 *	Psychology of Aging	3
SOC 125	Sociology of Aging	3
	Restricted Electives	9-10

Course ID	Title	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 - Business		
ACCT 120	Introduction to Financial Planning	3
BUS 16	Personal Law, Street Law	3
BUS 135	Marketing	3
BUS 160	Entrepreneurship	3
Pathway - Environmental Design		
ARCH 124A	Architectural Drawing I	4
ARCH 219 *	Residential and Commercial Space Planning	4
ARCH 163	International Building Code Inspection	4
ID 214 * *or*	Bath Design	3
ID 215 *	Kitchen Design	3
Pathway - Food/Nutrition		
FN 50	Fundamentals of Nutrition	3
FN 110 *	Food Preparation Essentials	3
FN 161 *	Clinical Nutrition	3
FN 169 *	Lifecycle Nutrition	3
FN 210	ServSafe in Food Production	1
FN 232 *	Techniques of Healthy Cooking	2
Pathway - Health		
HLTH 1	Contemporary Health Issues	3
HLTH 2	First AID, CPR, and Automated External Defibrillator	1.5
HSC 106	Legal and Ethical Aspects of Health Information	3
HSC 291	Management of Aggressive Behavior in Healthcare Settings	0.5
HIT 101	Alternative Healthcare Delivery Systems	2
MA 206	Introduction to Medical Assisting	3
Pathway - Recreation/Fitness		
HSC 151 *or*	Intro to Therapy and Career Exploration Of Rehabilitation	3
KNEA 151	Intro to Therapy and Career Exploration Of Rehabilitation	3
KNES 51	Introduction to Kinesiology	3
KNES 52	Fundamentals of Human Movement	3
KNES 60 *	Anatomy and Fundamentals of Yoga	3
Pathway - Human Services		
HS 100 *	Introduction to Human Services	3
HS 140	Group Leadership and Group Process	3
HS 174	Case Administration, Crisis Intervention And Referral	3
HS 220	Benefits and Entitlement	3
HS 105	Ethical Issues and Client's Rights	3
HS 131	Multicultural and Diverse Populations in the United States	3
SOC 10	Introduction to Marriage and The Family	3

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

Aging Studies Interdisciplinary
Certificate of Achievement

The Aging Studies 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 field of aging 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, 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.
- Evaluate the family, government, and community support systems for diverse groups of aging individuals.
- Demonstrate knowledge and skills in one of the suggested pathways of study within the Aging Studies Certificate Program.

Required Core (3 Units):

Course ID	Title	Units
SOC 180	Introduction to Aging	3
Required Core (6 Units), Choose Two of the following:		
SOC 16	Death and Dying	3
SOC 125	Sociology of Aging	3
PSYC 25 *	Psychology of Aging	3
	Restricted Electives	3-4
	TOTAL UNITS FOR THE CERTIFICATE:	**12-13**
Restricted Electives - Choose a minimum of 3-4 units based on the student's pathway:		
Pathway - 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 - 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
Pathway - Foods/Nutrition		
FN 50	Fundamentals of Nutrition	3
FN 110 *	Food Preparation Essentials	3
FN 169 *	Lifecycle Nutrition	3
FN 210	ServSafe in Food Production	1
FN 232 *	Techniques of Healthy Cooking	2
FN 246 *	Pantry	3
Pathway - 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

Course ID	Title	Units
HSC 151 *or*	Intro to Therapy and Career Exploration of Rehabilitation	3
KNEA 151	Intro to Therapy and Career Exploration of Rehabilitation	3
KNES 60 *	Anatomy and Fundamentals of Yoga	3
Pathway - 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 - 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.

Theatre Arts

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 *or*	Theatre Appreciation	3
TA 25	Theatre History - Primitive to Renaissance	3
TA 1	Fundamentals of Acting	3
Complete 3 Units in Rehearsal and Performance Production		
TA 15 *	Rehearsal and Performance - Drama	3
TA 16 *	Rehearsal and Performance - Comedy	3
TA 17 *	Rehearsal and Performance - Mixed Genres	3
TA 19 *	Rehearsal and Performance – Musical Theatre	3
TA 113 *	Rehearsal and Performance – Children's Theatre	3
	OR	
Complete 3 units in Technical Theatre in Production		
ETT 24	Stage Management	3
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
TA 15 *•	Rehearsal and Performance - Drama	3
TA 16 *•	Rehearsal and Performance - Comedy	3
TA 17 *•	Rehearsal and Performance - Mixed Genres	3
TA 19 *•	Rehearsal and Performance – Musical Theatre	3
TA 113 *•	Rehearsal and Performance – Children's Theatre	3
ETT 24 •	Stage Management	3
	TOTAL UNITS FOR THE MAJOR:	**18**

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

•A maximum of three units may be taken from TA 15, 16, 17, 19, 113, and ETT 24 to be counted toward List A requirements. Course taken to fulfill core requirement for Rehearsal and Performance Production or Technical Theatre in Production may not be taken again to meet List A requirements.

Scenic Art and Painting
Occupational Skills Award

The Entertainment and Theatre Technology, Scenic Artist and Painting Occupational Skills Award is designed to prepare the student for employment as a scenic artist and painter in the entertainment industry; including theatre, theme parks, television, movies, corporate events, trade shows, sporting events, faith-based events, and all other forms of live entertainment. The program is designed to develop a solid foundation of skills so students can work closely with Designers, art directors and other professionals in the various areas that make up the Entertainment Industry as well as other industries that utilize the skills of a scenic artist. Students are required to participate as paint crew on the Department of Theatre Arts productions as well as other field work.

Course ID	Title	Units
FIRST SEMESTER		
ETT 142	Theatre Production	1
ETT 144	Theatre Scenery Painting	2
ETT 244 *	Advanced Scenery Painting	3
SECOND SEMESTER		
ETT 142	Theatre Production	1
ETT 242 *	Styles of Paint for the Entertainment Industry	3
CWE 180	Co-Op-Ed Entertainment and Theatre Technology	2
	TOTAL UNITS FOR THE AWARD	**12**

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

Theatre Arts Entertainment and Theatre Technology
Certificate of Achievement

The Saddleback College Department of Theatre Arts' Entertainment and Theatre Technology Certificate of Achievement program provides students with a career preparation for entry-level positions in the professional entertainment industry. This comprehensive and intensive program offers students the opportunity to explore fundamentals of a wide variety of practical career opportunities in the entertainment industry including Theatre Technician, Theatrical Stage Employee, Moving Picture Technician, Theatre Artist and its Allied Crafts. Technical theatre students participate in the hands-on experience of creating all of the technical elements of Department of Theatre Arts' 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 CORE:

Course ID	Title	Units
ETT 40	Stagecraft	3
ETT 100 *	Applied Technical Theatre Production	2
ETT 142	Theatre Production	1 (2)
ETT 101 *	Fundamentals of Design and Graphics for Theatre	3
TA 1	Fundamentals of Acting	3
ETT 240 *	Advanced Stagecraft	3
TA 20	Theatre Appreciation	3
CWE 180 *	Co-Op-Ed Entertainment and Theatre Technology	2
ETT 144	Theatre Scenery Painting	2
	Select one course from Group 1: Appreciation and History	3
	Select one course from Group 2: Industry Skills	2-3
	TOTAL UNITS FOR THE CERTIFICATE:	**28-29**
Group 1: Appreciation and History		
ARTH 20	Art Appreciation	3
CTVR 3	The History and Appreciation of American Cinema	3
DANC 64	History of Dance	3
MUS 20	Music Appreciation	3
MUS 27	History of Jazz	3
MUS 28	History of Rock	3
TA 22	Musical Theatre History and Appreciation	3
Group 2: Industry Skills		
ETT 41 *	Lighting Design Fundamentals	3
ETT 42	Costume Design	3

Course ID	Title	Units
ETT 242 *	Styles of Paint for the Entertainment Industry	3
ETT 244 *	Advanced Scenery Painting	3
MUS 118	Digital Multi-Track Music Recording	2.5
MUS 130	Music Production I	2.5
MUS 132	Introduction to Music Technology	2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Course needs to be taken two times

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 CORE:

Course ID	Title	Units
ETT 40	Stagecraft	3
TA 1	Fundamentals of Acting	3
TA 2 *	Scene Study I	3
TA 3 *	Scene Study II	3
TA 11	Stage Movement	3
TA 35	Voice and Diction	3
	Select 2-3 units from Group 1: Rehearsal, Performance, and Production	2-3
	Select one course from Group 2: Appreciation and History	3
	Select one course from Group 3: Theatre Electives	3
TOTAL UNITS FOR THE MAJOR:		**26-27**
Group 1: Rehearsal, Performance, and Production (select 2-3 units)		
ETT 142	Theatre Production	1 (2)
TA 15 *	Rehearsal and Performance - Drama	3
TA 16 *	Rehearsal and Performance - Comedy	3
TA 17 *	Rehearsal and Performance - Mixed Genres	3
TA 19 *	Rehearsal and Performance - Musical Theatre	3
TA 113 *	Rehearsal and Performance – Children's Theatre	3
Group 2: Appreciation and History (select one course)		
TA 20	Theatre Appreciation	3
TA 25	Theatre History - Primitive to Renaissance	3
TA 22	Musical Theatre History and Appreciation	3

Course ID	Title	Units
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
TA 4 *	Acting Styles I	3
TA 10	Musical Theatre Techniques	3
TA 12 *	Directing	3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
If ETT 142 is selected, course needs to be taken two 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.

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 (2)
ETT 101 *	Fundamentals of Design and Graphics for Theatre	3
TA 1	Fundamentals of Acting	3
	Select one course from Group 1	3
	Select one course from Group 2	2-3
TOTAL UNITS FOR THE MAJOR		**18-19**
Group 1:		
TA 20	Theatre Appreciation	3
TA 22	Musical Theatre History and Appreciation	3
TA 25	Theatre History - Primitive to Renaissance	3
Group 2:		
ETT 41 *	Lighting Design Fundamentals	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 two 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.

Travel and Tourism

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 the Exciting World of 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 *	Co-Op-Ed Travel Management	1
	TOTAL UNITS FOR THE MAJOR	**23**

*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.

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 the Exciting World of 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 *	Co-Op-Ed Travel Management	1
	TOTAL UNITS FOR THE CERTIFICATE	**23**

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

Non-Credit Awards and Programs

Adult Education English as a Second Language

Adult Education
English as a Second Language (AESL) for the Workplace
Certificate of Competency

The Adult Education English as a Second Language (AESL) for the Workplace Certificate of Competency is a sequence of two courses offered as a resource for students to improve their language skills before entering a CTE program or the workforce. These noncredit courses are designed for non-native English speakers to develop listening, speaking, reading and writing skills to communicate effectively in a vocational/job-related context. Focus will be on job-specific terminology, field-related reading, practical writing tasks and oral communication strategies to clearly enunciate target vocabulary and sustain intelligible conversations with coworkers, supervisors, patients, students, clients, and peers.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Acquire and pronounce new vocation-related vocabulary, phrases, and idioms intelligibly using acceptable stress and intonation patterns
- Present work-related summaries based on reading or listening material
- Participate in face-to-face conversations in vocational contexts
- Utilize clarification strategies in order to promote better understanding and accuracy on the job
- Understand and interpret authentic and academic work-related reading material
- Demonstrate proficiency in performing written and spoken communicative tasks
- Demonstrate positive work habits and culturally acceptable behaviors that lead to success on the job
- Demonstrate efficiency in using common computer software applications
- Use critical thinking to interpret Internet resources pertaining to job search, job training and workers' rights

Course ID	Title	Hours
AESL 710NC	Adult Education ESL for the Workplace I	99.6
AESL 720NC *	Adult Education ESL for the Workplace II	99.6
TOTAL HOURS FOR THE CERTIFICATE:		**199.2**

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

Adult Education
English as a Second Language - Advanced Level
Certificate of Competency

The Adult Education English as a Second Language (AESL) Certificate of Competency Advanced Level is designed for students to demonstrate low-advanced English 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 develop the language necessary to work toward career, personal and education goals (including preparation for credit courses).

Students who complete AESL705 Intermediate High and AESL 706 Advanced Low with a passing noncredit grade of P in each course are eligible for the AESL Certificate of Competency- Advanced Level. There are no enrollment limitations or prerequisites for these courses. Students who earn the AESL Certificate of Competency - Advanced are eligible to take AESL Citizenship (708), and may be prepared to enter the Saddleback College ESL Program or CTE job-preparation program.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Understand face-to-face and telephone conversations in familiar and unfamiliar contexts
- Engage in social and interpersonal relations: approve or disapprove, express indifference and intentions, persuade, predict consequences
- Summarize and discuss multi-paragraph reading passages or audio-visual materials
- Write a short biography, personal letters, business letters and letters of complaint
- Interpret and critically assess information from online sources
- Interpret wages, wage deductions, benefits and timekeeping forms
- Identify factors that influence job retention and advancement
- Demonstrate an organized approach to achieving goals, including identifying and prioritizing tasks and setting and following an effective schedule
- Interpret information about educational support services, such as counseling, accommodations, and financial aid; identify ways to obtain access

- Recognize acceptable cultural norms in the United States and compare those of a different country

Course ID	Title	Hours
AESL 705NC	Intermediate High	149.40
AESL 706NC	Advanced Low	149.40
	TOTAL HOURS FOR THE CERTIFICATE:	298.80

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

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

Students who complete AESL 701 Basic Literacy and AESL 702 Beginning Low with a passing noncredit grade of P in each course are eligible for the AESL Certificate of Competency- Beginning Level. There are no enrollment limitations or prerequisites for these courses. Students who earn the AESL Certificate of Competency - Beginning are eligible to take AESL Citizenship (AESL 708), and may be prepared to enter the workplace.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Identify and use appropriate language to get information or solve a   problem
- Follow procedures for applying for a job, including interpreting and completing job applications
- Perform guided communication tasks and guided practical activities (write commands, write directions, write brief passages, etc.)
- Use factual information: ask for information, describe, express necessity, ask permission, agree, and disagree
- Use standard measurement for length, width, perimeter, area, volume, height or weight
- Interpret diagrams, illustrations and scale drawings
- Interpret medications, including prescriptions, over-the-counter and generic medications
- Interpret information about Orange County, such as cities, geographical features and points of interest in community
- Identify the U.S. flag, other national symbols and important monuments
- Recognize acceptable cultural norms in the United States and compare those of a different country

Course ID	Title	Hours
AESL 701NC	Basic Literacy-Adult Education English as a Second Language	149.40
AESL 702NC	Beginning Low-Adult Education English as a Second Language	149.40
	TOTAL HOURS FOR THE CERTIFICATE:	298.80

Adult Education
English as a Second Language - Intermediate Level
Certificate of Competency

The Adult Education English as a Second Language (AESL) Certificate of Competency Intermediate Level is designed for students to demonstrate intermediate English skills. The goal of this level is to build reading, writing, listening, speaking, grammar, and vocabulary skills so that students can communicate in everyday situations. Emphasis will be on creative oral language, initial critical thinking skills in reading comprehension and performing communicative written tasks as well as beginning academic writing. To enroll in these courses, students demonstrate the competencies from the AESL Beginning certificate, or have taken beginning level courses; however, there are no enrollment limitations or prerequisites for these courses. Students who complete AESL 703 Beginning High and AESL 704 Intermediate Low with a passing noncredit grade of P in each course are eligible for the AESL Certificate of Competency Intermediate. Students who earn the AESL Certificate of Competency Intermediate are eligible to take AESL Citizenship (AESL 708), and may be prepared to enter the Saddleback College ESL Program or CTE job preparation program.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Write related sentences to form a simple paragraph on a personal topic
- Complete forms: job application, medical history form, registration form for higher educational facility
- Begin using critical thinking skills in reading comprehension activities
- Skim for general meaning and scan for specific information in simple life skill materials related to immediate needs

- Identify or make inferences through inductive and deductive reasoning to hypothesize, predict, conclude, and synthesize (after listening to a portion of a reading passage, student will make predictions on conclusion of passage)
- Participate in simple facetoface conversations about survival needs, daily and leisure activities, and personal interests; articulate words and sentences so that native English speakers can understand
- Engage courteously in social and interpersonal relations: apologize, make excuses, express worry and disappointment, give and get permission, make offers and suggestions, give advice
- Ask and answer questions in simple present, past, and future tenses on familiar topics
- Communicate with a doctor or other medical staff regarding condition, diagnosis, treatment, concerns, etc.
- Identify procedures involved in interviewing for a job, such as arranging for an interview, acting and dressing appropriately, and selecting appropriate questions and response
- Recognize acceptable cultural norms in the United States and compare those of a different country

Course ID	Title	Hours
AESL 703NC	Beginning High-Adult Education English as a Second Language	149.40
AESL 704NC	Intermed. Low-Adult Education English as a Second Language	149.40
	TOTAL HOURS FOR THE CERTIFICATE:	298.80

Adult Education Food and Nutrition

Basic Culinary Skills
Certificate of Completion

The Basic Culinary Skills Certificate of Completion program prepares students for many entry level culinary employment opportunities. These include positions as institution and cafeteria cooks, restaurant cooks, and food preparation workers. Students will be provided with the essential skills of sanitation as well as foundational cooking and baking, operations, and production in order to obtain entry level employment in the food service industry.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate preparation for entry level employment in the food service industry.
- Demonstrate practical skills related to the food service.
- Demonstrate proficient safety and sanitation production practices as related to the food service industry.

REQUIRED CORE:

Course ID	Title	Hours
FN 210NC	ServSafe in Food Production NC	16.6
AEFN 789NC *	Basic Food Preparation	66.4
AEFN 790NC *	Baking Basics	66.4
AEFN 791NC *	Healthy Cooking	66.4
	TOTAL HOURS FOR THE CERTIFICATE:	199.2 - 215.8

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

Students with valid California ServSafe Certification may have this core requirement waived.

Adult Education High School Equivalency

Adult Education
High School Equivalency for Language Arts Success
Certificate of Competency

This is a non-credit, open enrollment Adult Basic Education Language Arts program within the Adult Education Department. Students will practice fundamentals in three major content areas: Reading, Language Arts and Writing. Students will achieve the ability to read closely, the ability to write clearly, and the ability to edit and understand the use of standard written English in context. Program is designed for students who eventually plan to pass one of the three high school equivalency (HSE) exams, follow a CTE pathway, or attend academic college courses. Basic test-taking computer skills for success on high school equivalency exam will be embedded into the course outline.

This program meets the needs of the 145,000 basic-skills deficient people in the South Orange County region. It is intended primarily for students who are preparing to take one of the three state approved high school equivalency exams. Completion of this program will prepare students to enter the workforce, a CTE program, or to transition into an academic post-secondary education.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Effectively read and report on fiction and nonfiction texts related to social studies, science and literature
- Demonstrate in writing, ability to analyze two opposing reading passages to decide which argument has more convincing evidence and explain why the evidence supports your choice
- Analyze the impact of specific word choices on meaning and tone and understand explicit details in text
- Make and support inferences and draw conclusions or deduce meanings not explicitly present in text
- Determine the main idea, topic, or theme of a text; summarize key details and ideas
- Draw conclusions and make generalizations
- Organize ideas by evaluating the relevance of content
- Understand writing conventions such as correct forms of verbs, modifiers and pronouns and maintain grammatical agreement
- Recognize correct capitalization and punctuation

Course ID	Title	Hours
AEBE 702NC*	Adult Education Basic Education Language Arts I	49.8
AEBE 792NC*	Adult Education Basic Education Language Arts Lab I	49.8
AEBE 703NC*	Adult Education Basic Education Language Arts II	49.8
AEBE 793NC *	Adult Education Basic Education Language Arts Lab II	49.8
	TOTAL HOURS FOR THE CERTIFICATE:	**199.2**

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

Adult Education
High School Equivalency for Mathematics Success
Certificate of Competency

This is a non-credit, open enrollment Adult Basic Education Mathematics program within the Adult Education Department. Program emphasizes development of strategies to effectively solve mathematical problems for students who eventually plan to pass one of the three high school equivalency (HSE) exams, follow a CTE pathway, or attend academic college courses. Students will practice quantitative problem solving and algebraic problem solving in order to achieve a deeper conceptual understanding, procedural skill and fluency, and the ability to apply these fundamentals in real work situations. Basic test-taking computer skills for success on high school equivalency exam will be embedded into the course outline.

This program meets the needs of the 145,000 basic skills deficient people in the South Orange County region. It is intended primarily for students who are preparing to take one of the three state approved HSE math exams. Completion of this program will prepare students to enter the workforce, a CTE program, or to transition into an academic post secondary education.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Understand mathematical concepts and procedures
- Analyze and Interpret Information
- Synthesize data and solve problems
- Demonstrate proficiency in numbers and operations on numbers
- Demonstrate understanding of measurement and geometry
- Analyze data and demonstrate proficiency in probability and statistics
- Demonstrate understanding of algebraic concepts

Course ID	Title	Hours
AEBE 704NC*	Adult Education Basic Education Math I	49.8
AEBE 794NC*	Adult Education Basic Education Math Lab I	49.8
AEBE 705NC*	Adult Education Basic Education Math Arts II	49.8
AEBE 795NC *	Adult Education Basic Education Math Lab II	49.8
	TOTAL HOURS FOR THE CERTIFICATE:	**199.2**

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

Business

Nonprofit Business Administration
Certificate of Completion

The Certificate of Completion in Nonprofit Business Administration prepares individuals to work successfully in the various aspects of the Nonprofit business environment. Positions for which this program prepares students include management, finance, and fundraising.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Be able to identify and illustrate management best practices for leading a Nonprofit organization including major areas of responsibility for Nonprofit leaders, such as strategy, managing employees, fundraising, grant writing, board governance, and marketing and social media.
- Be able to identify and explain the finance and development (fundraising) aspects of a Nonprofit organization, including major areas of responsibility for Nonprofit finance, such as financial statements, budgeting, resource allocation, and grant writing.
- Be able to identify legal aspects of starting and operating a Nonprofit organization, including legal structure, receiving and maintaining tax-exempt status, trustee and director liability, and internet considerations.

Course ID	Title	Hours
BUS 421NC	Nonprofit Business Management	33.20
BUS 422NC	Nonprofit Business Finance	33.20
BUS 423NC *	Legal Aspects of Nonprofit Organizations	16.60
	TOTAL HOURS FOR THE CERTIFICATE:	83.00

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

Child Development and Education

Family Childcare
Certificate of Completion

The Family Childcare Certificate of Completion program prepares students to open and operate a Family Childcare Home (FCCH). Students will explore regulations for licensing, fiscal management strategies, and administrative tools for operating a FCCH. Introductory developmental and learning theory as well as appropriate curriculum strategies for the care and education of young children will be studied and applied. It is designed for both (1) students who are currently working in the field and (2) students who have an interest in working in the field.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Create a financial management plan to operate a FCCH
- Create and use administrative tools to support opening and operating a FCCH
- Develop business policies for opening and operating a FCCH
- Identify age appropriate learning opportunities for children based on the CA Infant/Toddler and Preschool Learning Foundations and Frameworks.
- Describe how indoor and outdoor environments support learning.

Course ID	Title	Hours
CDE 401NC	Family Childcare Business Practices	24
CDE 402NC	Family Childcare Curriculum and Environment	24
	TOTAL HOURS FOR THE CERTIFICATE:	48

Computer and Information Management

CISCO Network Specialist
Certificate of Completion

Cisco is the worldwide leader in Information Technology (IT), networking, and cybersecurity solutions. Cisco controls over 60% of the network routing computers; its nearest competitors all have single-digit market penetration. This certificate is composed of three tuition-free classes that prepare students for Cisco's initial Academy 7.0 industrial certificates. The first course prepares students for the initial small network Cisco Certificated Entry Level Technician (CCENT) certificate exam. The second course prepares students for the Cisco Certified Network Associate 1 (CCNA 1) exam. The final course prepares students for the Cisco Certified Network Associate

2 (CCNA 2) exam, which is the next certificate on installing, configuring, operating, and troubleshooting small and medium-sized Cisco networks. Upon completion of these courses and earning the Cisco certifications students have many opportunities in high employment potential computer networking support fields.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Identify basic IT terminology.
- Describe and identify the basic components of a client-server network.
- Install and configure Cisco routers.

Course ID	Title	Hours
CIS 480NC	CCENT CISCO Certified Entry Level Technician	83.0
CIS 481NC *	CCNA 1 CISCO Certified Network Associate	83.0
CIS 482NC *	CCNA 2 CISCO Certified Network Associate	83.0
	TOTAL HOURS FOR THE CERTIFICATE:	249.00

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

IT Help Desk Specialist
Certificate of Completion

The IT Help Desk Specialist certificate of completion is a tuition- free noncredit certificate which allows individuals to begin training in the high employment potential field of Help Desk IT Information Technology (IT). This certificate is also of value to all 21st-century workers especially individuals wishing to complement current skills with modern-day cloud and computer- orientated applications. The certificate includes required courses on developing keyboarding skills. Other required courses cover office procedures, an introduction to Windows, and cloud solutions. A cloud solution provides universal access to data anywhere and applications that can act on data using any intelligent device, PC/Mac, tablet, or smartphone. Students then have the option of restrictive electives focusing on various Microsoft Applications.

Program Student Learning Outcomes

Students who complete this program will be able to:
- Identify basic IT terminology.
- Describe and identify the basic components of a client-server network.
- Prepare business documents and create them at speeds of up to 30 words per minute

REQUIRED CORE

Course ID	Title	Hours
CIMA 421NC	Keyboarding for Computers – Beginning	58.1
CIMA 422NC *	Keyboarding for Computers - Intermediate	58.1
CIMA 400NC	Office Skills – Office Procedures	83.0
CIMA 401NC	Office Skills – Microsoft Windows	83.0
	Restricted Electives	166.0
	TOTAL HOURS FOR THE CERTIFICATE:	448.20
Restricted Electives – Select two Courses		
CIMA 402NC *	Word Processing – Microsoft Word	83.0
CIMA 403NC *	Office Skills – Outlook Teams	83.0
CIMA 404NC *	Spreadsheets – Microsoft Excel	83.0
CIMA 405NC *	Microsoft Office 365 (Database Access, and SharePoint)	83.0
CIMA 408NC *	Business Presentations – Microsoft PowerPoint	83.0

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

Microsoft Solutions Expert
Certificate of Completion

This tuition-free noncredit certificate is composed of three courses that prepare students for the first three levels of the MCSE (Microsoft Certified Solutions Expert) exams. Microsoft is the worldwide leader in the desktop PC marketplace. These three Microsoft certificates have high value in the IT support marketplace. Students need to complete two of the three MSCE courses to obtain the certificate. In general, this certificate caters to skills builders, recently out of work IT professionals, individuals unable to afford boot camp bills, or any student looking to enhance a college degree with important 21st-century skills.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Identify basic operating system terminology.
- Describe and identify the basic components of an operating system.
- Configure a small Microsoft Windows network.

REQUIRED CORE:

Course ID	Title	Hours
CIS 471NC	MCSE Certification Exam Prep I	83
CIS 472NC *	MCSE Certification Exam Prep II	83
CIS 473NC *	MCSE Certification Exam Prep III	83
	TOTAL HOURS FOR THE CERTIFICATE:	**166-249**

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

Web and Mobile Developer Bootcamp
Certificate of Completion

The Web and Mobile Developer Bootcamp Certificate provides students with a tuition-free option to pursue an entry-level career in the very fast-growing web and mobile development area. The courses cover basic web development skills of database, SQL, JavaScript/jQuery, Adobe, web page IDEs, WordPress, HTML, Bootstrap, CSS, responsive design, and prepare individuals for entry-level IT positions. The Web and Mobile Developer Bootcamp Certificate serves as a direct gateway to multiple CIM web design, webmaster, and other IT related credit certificates. The certificate is geared to individuals looking to build skills, recently out of work IT professionals, individuals unable to afford boot camp bills, or students looking to enhance a college degree with important 21st-century skills. Students who complete this certificate are also well prepared to pursue IT, and Computer Science related majors.

Program Student Learning Outcomes

Students who complete this program will be able to:

- Implement basic database SQL language fundamentals consisting of single table queries, sorting and updating data.
- Analyze database indexes, triggers, and constraints. Construct a website using Adobe Dreamweaver that contains links, HTML tags, CSS code, JavaScript, video, sound, graphics, Microsoft Word integration, tables, forms, object tag, page layout, fonts, colors and frames. This website will have RWD design features thereby supporting both desktop computers and mobile devices.
- Compose basic web and mobile programs including data types, control structures, functions, operators and events.

Course ID	Title	Hours
CIS 405	Workforce Preparation Database SQL	83
CIS 415	Creating Web Pages using ADOBE, HTML, CSS and other Tools	83
CIS 460	Workforce Prep Web Development Introduction Programming	83
	TOTAL HOURS FOR THE CERTIFICATE	**249**

English as a Second Language

English as a Second Language - Beginning Level
Certificate of Competency

The Certificate of Competency for English as a Second Language – Beginning Level is for students who can demonstrate basic English language skills such as participating in simple conversations, using every-day vocabulary, reading short articles, and writing grammatically correct sentences in short paragraphs.

The beginning-level courses for this certificate will prepare students for intermediate levels of English language. Completion of this certificate will allow students to be more involved in their communities and possibly advance in their jobs; however, completion of this certificate alone is insufficient preparation for college-level certificates and degree-applicable coursework.

Beginning students are placed into courses according to their English abilities and may test out of up to two courses. Courses may be offered days, evenings, and weekends during fall, spring and summer. There are no prerequisite skills or enrollment limitations although there is recommended preparation for some courses.

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:

Course ID	Title	Hours
ESL 320NC *or*	Beginning Multiskills I	99.6
ESL 321NC *	Beginning Multiskills II	99.6
ESL 322NC	Beginning Conversation	49.8
ESL 323NC	Beginning Pronunciation	49.8
ESL 325NC *	Beginning Reading and Writing	49.8
	TOTAL HOURS FOR THE CERTIFICATE:	**99.6-249**

Students must earn a grade of P (Pass) in the non-credit sections of these classes.
*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.
Recommended preparation for ESL 321 and ESL 325 is ESL 320.

English as a Second Language Advanced Level
Certificate of Competency

The Certificate of Competency for English as a Second Language – Advanced Level is designed for students to demonstrate advanced English language skills.

The required advanced-level courses leading to a certificate will prepare students for academic English language and mainstream academic or vocational courses. Courses for this certificate focus on all four primary language skills, including academic reading, composition writing, speaking, and listening. Students will expand communicative and academic vocabulary, conversational skills, composition, and comprehension. The completion of this certificate will prepare students for college-level certificates and degree-applicable coursework, greater civic involvement, and potential job advancement.

Advanced students are placed within the following sequence of foundation courses, according to their English abilities and may test out of up to four courses. Courses may be offered days, evenings, and weekends during fall, spring and summer. There is recommended preparation for advanced courses, and some courses have prerequisites and/or corequisites.

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.

Students will take a minimum of four courses, and courses may be offered in fall, spring, and summer.

REQUIRED CORE:

Course ID	Title	Hours
ESL 340NC*	Advanced Multiskills	99.6
ESL 342NC*	Advanced Conversation	49.8
ESL 343NC*	Advanced Pronunciation	49.8
Choose one Advanced Vocabulary Course from the following:		
ESL 344NC* *or*	Idioms and Expressions in American English	49.8
ESL 354NC	Vocabulary Skills for College	49.8
Choose one or two Academic/Writing Course from the following:		
ESL 380NC* *or*	Advanced Academic Writing I	99.6
ESL 346NC* *or*	Advanced Writing for Work	49.8
ESL 345NC* *and*	Advanced Writing I	49.8
ESL 802NC*	Advanced Writing I Lab	24.9
Choose one Advanced Grammar Course from the following:		

Course ID	Title	Hours
ESL 347NC* *or*	Advanced Grammar Review	49.8
ESL 357NC*	Grammar Review for College	49.8
	Select Two Restricted Electives from below	99.6
	TOTAL HOURSFOR THE CERTIFICATE:	**249.00-498.00**
Restricted Electives: (Choose two) 99.6 hours		
ESL 355NC*	ESL Reading for College: American Literature	49.8
ESL 356NC*	Academic Success Strategies for ESL Students	49.8
ESL 358NC*	Listening and Note-Taking Skills for College	49.8
ESL 359NC*	American Language and Culture Through Film	49.8

Students much achieve a noncredit grading option of P (Pass) in each class in order to be eligible for the certificate.
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

English as a Second Language Intermediate Level
Certificate of Competency

The Certificate of Competency for English as a Second Language – Intermediate Level is designed for students to demonstrate intermediate English language skills. Emphasis is on participating in intermediate-level conversations, expanding vocabulary, reading authentic and simplified texts, and writing grammatically correct sentences within single and multi-paragraph compositions.

The intermediate level courses leading to a certificate will prepare students for advanced levels of English language study by working on all four primary language skills, including reading, writing, speaking, and listening. Students will expand communicative and academic vocabulary, conversational skills, composition, and comprehension. While completion of this certificate will allow for greater civic involvement and potential job advancement, completion of this certificate alone is insufficient preparation for college-level certificates and degree-applicable coursework.

Intermediate students are placed within the following sequence of foundation courses, according to their English abilities and may test out of up to two courses. Courses may be offered days, evenings, and weekends during fall, spring and summer. There is recommended preparation for intermediate courses.

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:

Course ID	Title	Hours
ESL 330NC * *or*	Intermediate Multiskills I	99.6
ESL 331NC *	Intermediate Multiskills II	99.6
ESL 332NC *	Intermediate Conversation	49.8
ESL 335NC * *or*	Intermediate Writing I	49.8
ESL 336NC * *and*	Intermediate Writing II	49.8
ESL 801NC *	Intermediate Writing II Lab	24.9
ESL 333NC *	Intermediate Pronunciation	49.8
	TOTAL HOURS FOR THE CERTIFICATE:	**99.6-273.9**

Students must earn a grade of P (Pass) in the non-credit sections of these classes.
*Course has a prerequisite, corequisite, limitation, or recommended preparation, see course description.

Medical Lab Technology

Clinical Lab Assistant and Phlebotomy Program
Certificate of Completion

The Clinical Laboratory Assistant/ Phlebotomy Program will introduce all concepts relevant to the pre-analytical and analytical (waived) laboratory testing phases, including phlebotomy. Emphasis will be placed upon biohazard handling safety, specimen collection (blood/ phlebotomy and non-blood specimens) and equipment, blood and non-blood specimen processing and evaluation for testing, diagnostic laboratory terminology, laboratory information systems, quality control and quality assurance for waived tests, specimen send/outs processing, and professionalism/ soft-skills for laboratory employees. Basic and advanced phlebotomy topics and phlebotomy clinical practicum will be introduced. Individuals who have earned a High School Diploma (must be 18 years or older) or a GED may apply to this program. Students enrolled in the MLT 413NC course are required to obtain the following clearances before participation in the program: health clearances (immunizations, drug screen, and TB testing), a background check. Students enrolled in MLS 413NC course are also required to obtain a non-expired BLS card and malpractice insurance. Students may be required to participate in an interview selection process at a maximum of 3 approved training sites for the MLT 413NC course. Program completers will be eligible to take the state certification exam approved by the California Department of Public Health/ Laboratory Field Services branch to obtain a Certified Phlebotomy Technician-1 license required for employment. Certification enables employment in various diagnostic laboratory settings in the hospital, the physician office, reference, forensic, and research institutions.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Perform blood specimen collection, transport, and processing as required for diagnostic testing.
- Practice established safety procedures and communicate effectively and professionally with patients, laboratory personnel, and other members of the health care team.
- Demonstrate preparation for applicable State of California approved Phlebotomy certification exam.

REQUIRED CORE:

Course ID	Title	Hours
MLT 410NC	Introduction to the Clinical Laboratory Profession	16.6
MLT 411NC	Basic Laboratory Procedures	16.6
MLT 412NC *	Phlebotomy	66.4
MLT 413NC *	Phlebotomy Laboratory Experience	58.1
	TOTAL HOURS FOR THE CERTIFICATE:	157.70

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

Nursing

Certified Nurse Assistant
Certificate of Completion

The Certified Nurse Assistant (CNA) program provides students with the knowledge and the skills required to provide basic nursing care skills and learn effective communication for understanding psychosocial/cultural differences of patients. This program focuses on the role of the Certified Nurse Assistant including: safety precautions, emergency procedures, infection control and prevention, client rights to recognize and report abuse and neglect, activities of daily living, personal hygiene, nutrition, safe food handling, body mechanics, and transferring patients. This program also prepares students to take the examination for the Certified Nurse Assistant issued by the California State Department of Health Services. Certification as a Nurse Assistant prepares students for employment in acute and long term and skilled health care facilities, residences, and medical offices. This program requires participants to obtain an American Heart Association Basic Life Support (AHA BLS) provider card, complete a criminal background check, fingerprinting and health screenings.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate skills needed for certification as a nurse assistant.
- Demonstrate basic patient care skills needed for patients' activities of daily living, personal hygiene, nutrition, safe food handling, as well as understand body mechanics, and proper transferring of patients.
- Describe an understanding of the psychosocial/ cultural and communication skills needed with patients and healthcare providers to include safety precautions, emergency procedures, infection control and prevention, and clients' rights to recognize and report abuse and neglect.

Course ID	Title	Hours
N 422NC *	Certified Nurse Assistant Theory	83
N 423NC *	Certified Nurse Assistant Practicum	99.6
	TOTAL HOURS FOR THE CERTIFICATE:	**182.6**

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

Communication Skills for Nursing Students
Certificate of Completion

The Communication Skills for Nursing Students Certificate of Completion serves to remediate nursing students who have been identified as needing to acquire and apply evidence-based communication techniques, either through self-referral or by a nursing instructor. Effective communication is essential in today's healthcare setting for promoting inter-professional collaboration, teamwork, patient-centered care, and ultimately, the improvement of patient outcomes. Students learn the value of positive, effective communication in the healthcare setting and in their own lives. This program is a two-course certification that includes communication in all forms: verbal and nonverbal, reading, writing and listening.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Identify assertive, passive, passive-aggressive, and aggressive verbal and non-verbal communication styles.
- Apply assertive verbal and non-verbal communication techniques in their professional and personal lives.
- Demonstrate teamwork and collaboration skills using assertive communication techniques.
- Utilize assertive conflict resolution techniques.
- Communicate effectively with patients, families, and the inter-professional health care team to achieve quality patient care.

Course ID	Title	Hours
N 478NC *	Nursing Communication Skills, Part I	6.0
N 479NC *	Nursing Communication Skills, Part II	6.0
	TOTAL HOURS FOR CERTIFICATE:	**12**

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

Emergency Nurse Training Program
Certificate of Completion

This program is an introduction for experienced and new graduate registered nurses to emergency nursing emphasizing the adaptive behaviors for critical thinking and skilled response to emergency department patient care. This program provides the theoretical foundation for emergency nurses to learn critical knowledge and skills to effectively communicate, prioritize, problem solve and implement decisive care successfully in the emergency care setting. The program is intended for new graduate RNs and RNs transferring from other areas of nursing to emergency care. The program uses the Emergency Nurses Association, Emergency Nursing Core Curriculum text book as a guide to focus on physical, psychosocial and clinical practice issues presented by patients in the emergency setting. At the completion of the program the participant will receive a certificate of completion to seek gainful employment in an emergency setting. Proof of a current California RN license, CPR card, TB test, insurance coverage and general computer experience is required.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Perform a nursing assessment
- Describe the management of an emergency patient
- Identify the Emergency Care standards of practice as demonstrated by the Emergency Nurse's Association.

Course ID	Title	Hours
N 402NC *	Emergency Nurse Training Theory	30
N 403NC *	Emergency Nurse Training Practicum	216
	TOTAL HOURS FOR THE CERTIFICATE:	**246**

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

Home Health Aide
Certificate of Completion

The Home Health Aide Certificate of Completion program provides students with the knowledge and skills required of home health agencies to provide patient personal care skills, effective communication, home assistance, nutrition, meal preparation, housekeeping, environmental safety, and patient mobility. This program focuses on the role of the home health aide to prepare for a position as a home health aide working with elderly, convalescent, or disabled persons in their own home instead of a health care facility.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Demonstrate knowledge and skills necessary for home care assistance.
- Demonstrate patient personal care skills needed for daily living, personal hygiene, and nutrition.
- Demonstrate the communication skills needed with patients and family members to include safety precautions, emergency procedures, and infection control.

Course ID	Title	Hours
N 400NC	Home Health Aide	8
N 401NC *	Home Health Aide Practicum	8
	TOTAL HOURS FOR THE CERTIFICATE:	16

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

Reading

Academic Preparation for College
Certificate of Competency

The Academic Preparation for College Certificate of Competency is designed to help students improve their academic reading, writing, and study skills. The certificate consists of two sequential, noncredit courses with labs that are geared toward students who need to gain college level proficiency before attempting for-credit coursework. The lecture and lab classes focus on building students' reading comprehension, vocabulary, writing, time management, and study strategies while also providing individualized attention to help students gain confidence in their overall academic preparation.

Program Student Learning Outcomes
Students who complete this program will be able to:
- Recognize and use different patterns of organization in college level expository writing.
- Use inference skills when reading college level expository writing.
- Recognize fragments and run-ons in an expository paragraph and work to avoid using them in writing.
- Demonstrate an increased knowledge of college-level vocabulary including Latin and Greek word parts.
- Recognize an improvement in their comprehension, critical thinking, and organization of written work.

REQUIRED CORE:

Course ID	Title	Hours
ENG 345NC * and	Building Basic Reading Skills	49.8
ENG 346NC *	Basic Reading Skills Lab	24.9
ENG 340NC * and	Reading and Writing Skills for College	49.8
ENG 341NC *	Reading Laboratory	24.9
	TOTAL HOURS FOR THE CERTIFICATE:	149.4

*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 38, 204 • www.berkeley.edu

2 **University of California, Davis** (1908) • (530) 752-1011
Quarter Enrollment 35,415 • www.ucdavis.edu

3 **University of California, Irvine** (1965) • (949) 824-5011
Quarter Enrollment 30,757 • www.uci.edu

4 **University of California, Los Angeles** (1919) • (310) 825-4321
Quarter Enrollment 43,239 • www.ucla.edu

5 **University of California, Merced** (2004) • (209) 228-4400
Semester Enrollment 6,268 • www.ucmerced.edu

6 **University of California, Riverside** (1954) • (951) 827-1012
Quarter Enrollment 21,297 • www.ucr.edu

7 **University of California, San Diego** (1964) • (858) 534-2230
Quarter Enrollment 31,502 • www.ucsd.edu

8 **University of California, Santa Barbara** (1944) • (805) 893-8000
Quarter Enrollment 22,225 • www.ucsb.edu

9 **University of California, Santa Cruz** (1965) • (831) 459-0111
Quarter Enrollment 17,866 • www.ucsc.edu

10 **University of California, San Francisco**, is a graduate/professional institution requiring pre-professional preparation or graduate standing for admission. (415) 476-9000 Post Grad 4,636 www.ucsf.edu

California State University* – 23 Campuses

1 **California Maritime Academy** (1929) • (707) 654-1000
Semester Enrollment 1,046 • www.csum.edu

2 **California Polytechnic State University, San Luis Obispo** (1901)
(805) 756-1111 • Semester Enrollment 20,186 • www.calpoly.edu

3 **California State Polytechnic University, Pomona** (1938)
(909) 869-3070 • Semester Enrollment 22,156 • www.cpp.edu

4 **California State University, Bakersfield** (1965) • (661) 664-2782
Semester Enrollment 8,720 • www.csub.edu

5 **California State University, Channel Islands** (2002) • (805) 437-8400
Semester Enrollment 5,140 • www.csuci.edu

6 **California State University, Chico** (1887) • (530) 898-4636
Semester Enrollment 17,287 • www.csuchico.edu

7 **California State University, Dominguez Hills** (1960) • (310) 243-3696
Semester Enrollment 14,670 • www.csudh.edu

8 **California State University, East Bay** (1957) *(formerly CSU Hayward)*
(510) 885-3000 • Semester Enrollment 14,526 • www.csueastbay.edu

9 **California State University, Fresno** (1911) • (559) 278-4240
Semester Enrollment 23,179 • www.csufresno.edu

10 **California State University, Fullerton** (1957) • (657) 278-1712
Semester Enrollment 38,128 • www.fullerton.edu

11 **California State University, Long Beach** (1949) • (562) 985-4111
Semester Enrollment 35,586 • www.csulb.edu

12 **California State University, Los Angeles** (1947) • (323) 343-3000
Semester Enrollment 23,258 • www.calstatela.edu

13 **California State University, Monterey Bay** (1995) • (831) 582-3000
Semester Enrollment 6,631 • www.csumb.edu

14 **California State University, Northridge** (1958) • (818) 677-1200
Semester Enrollment 38,310 • www.csun.edu

15 **California State University, Sacramento** (1947) • (916) 278-6011
Semester Enrollment 28,811 • www.csus.edu

16 **California State University, San Bernardino** (1960) • (909) 537-5000
Quarter Enrollment 18,398 • www.csusb.edu

17 **California State University, San Marcos** (1989) • (760) 750-4000
Semester Enrollment 10,610 • www.csusm.edu

18 **California State University, Stanislaus** (1957) • (209) 667-3122
Semester Enrollment 8,917 • www.csustan.edu

19 **Humboldt State University** (1913) • (707) 826-3011
Semester Enrollment 8,293 • www.humboldt.edu

20 **San Diego State University** (1897) • (619) 594-5000
Semester Enrollment 32,576 • www.sdsu.edu

21 **San Francisco State University** (1899) • (415) 338-1111
Semester Enrollment 29,905 • www.sfsu.edu

22 **San Jose State University** (1857) • (408) 924-1000
Semester Enrollment 32,713 • www.sjsu.edu

23 **Sonoma State University** (1960) • (707) 664-2880
Semester Enrollment 9,120 • www.sonoma.edu

⭐ **Saddleback College**
www.saddleback.edu
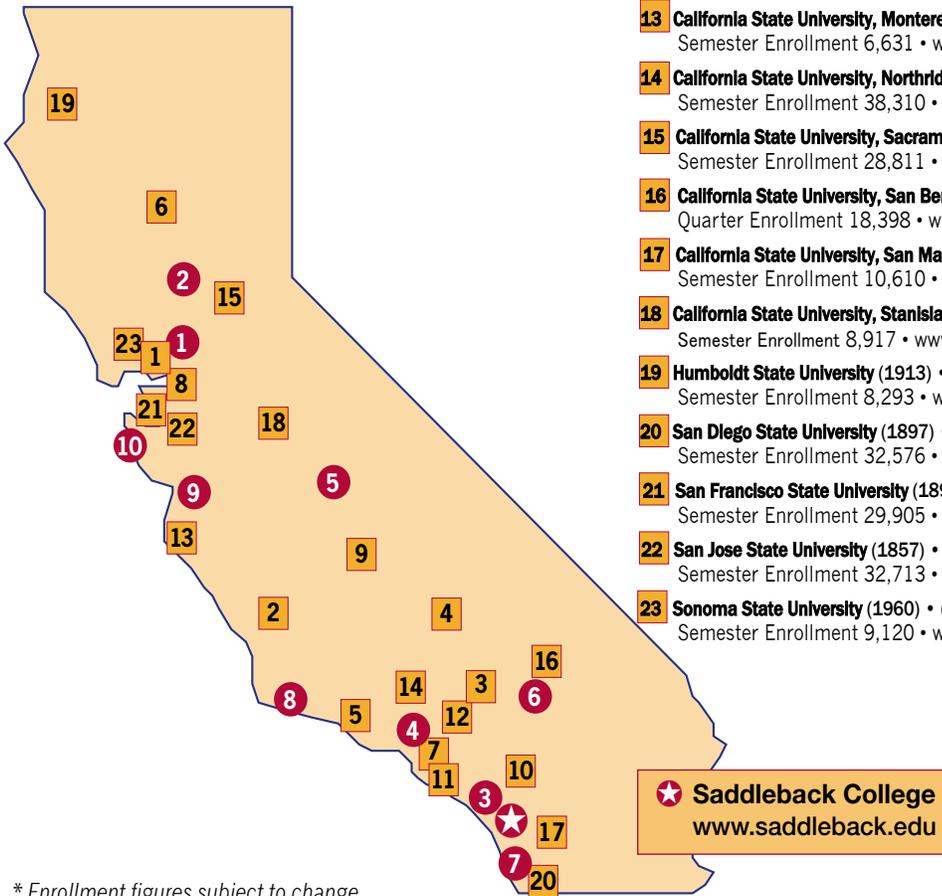
Enrollment figures subject to change

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.
   C.   **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.
   D.   Note courses which must be taken in preparation for the major as well as those required in the major.
   E.   Remember that community college courses transfer to four-year colleges in terms of specific or elective credit depending upon the school and major selected. Refer to the ASSIST (Articulation System Stimulating Interinstitutional Student Transfer) website at www.assist.org which is the official California statewide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU transferable courses and major preparation. Students are advised to contact a Saddleback College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.
   F.   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. The Career Center has catalogs available from the University of California, California State University and other institutions to support transfer research. Additionally, please review college and university websites for current catalog editions.
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 California State University

The following information is subject to change

(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 Calstate Apply for details: http://calstate.edu/apply.

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

(Information Subject to Change)

2021-2022 CSU GE was not available at the time of publication. Once available, it will be viewable at
https://www.saddleback.edu/articulation/IGETCCSU-Degree-Resources.

Please meet with a counselor for the most up to date information.

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, E or F), 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. Starting Fall 2021, full CSU Certification requires completion of an Area F Ethnic Studies course.

IMPORTANT:

In general, courses listed as preparation for the major may also be applicable to general education requirements. Students should refer to the catalog of the institution offering their intended major to determine lower-division major requirements as well as those which are recommended or required in preparation for the major, and the transfer pattern section of the Saddleback College catalog for examples.

Also refer to ASSIST at www.assist.org which is the official California state-wide database listing a selection of campus approved articulation/transfer agreements, general education requirements, and information on UC and CSU-transferable courses. Students are advised to contact a Saddleback College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.

University of California

The following information is subject to change

(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

For further information regarding the application and admissions process, refer to the UC's online undergraduate application website at www.universityofcalifornia.edu

Eligibility for Transfer

California Residents: To qualify for admission to the University as a transfer student, a student must meet one of the following three sets of requirements. The pathway a student follows depends upon whether they were eligible for admission to the UC when they graduated from high school. California residents must have at least a "C" (2.0) average in all transferable college coursework.

1. Students who were eligible for admission to the University when they graduated from high school [meaning they satisfied the Subject, Scholarship, and Examination requirements, or were identified by the University during the senior year in high school as eligible under the Eligibility in the Local Context (ELC) program], are eligible to transfer if they have a "C" (2.0) average in transferable coursework.
2. Students who met the Scholarship Requirement but not the Subject Requirement must take transferable college courses in the missing subjects, earning a "C" or better in each required course, and have an overall "C" (2.0) average in all transferable college coursework to be eligible to transfer.
3. Students who were not eligible for admission to the University when they graduated from high school because they did not meet the Scholarship Requirement must:
   A. Complete 60 semester units or 90 quarter units of transferable college credit with a grade-point average of at least 2.4, with no more than 14 semester (21 quarter) units completed on a credit/no credit basis **AND**
   B. Complete the following course pattern requirement, earning a grade of "C" or better in each course:
      1. two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
      2. one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; **AND**
      3. four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

(Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC may satisfy Option 3B above of the transfer admission requirements.)

Nonresidents: The minimum admission requirements for nonresidents are very similar to those for California residents. However, nonresidents must have a grade point average of 2.8 or higher in all transferable coursework. Students are advised to consult with the Admissions Office at the UC campus of choice for details and specific requirements.

If the number of applicants exceeds the spaces available for a particular campus or major — as is often the case — the campus uses criteria that exceed the minimum requirements to select students. Meeting the minimum requirements, therefore, is not enough to gain admission to many UC campuses and programs. The average grade-point average varies widely by campus and by major.

Community College Transfer Priority Admission

UC campuses give priority consideration for admission to California community college students. A California community college student applying for admission to the University of California in advanced standing will be given priority admission over all other applicants if:

1. you were enrolled at one or more California community colleges for at least two terms (excluding summer sessions);
2. the last college attended before admission to a UC campus was a California community college (excluding summer sessions); and
3. you have completed at least 30 semester (45 quarter) UC-transferable units at one or more California community colleges.

Program Planning for Transfer to a UC Campus

Students planning to transfer to the University of California must keep the following requirements in mind when selecting courses:

1. Admission/Major Requirements:

2. 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.

3. General Education/Breadth:

4. 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 Curriculum (IGETC). The IGETC pattern is viewable at https://www.saddleback.edu/articulation/IGETCCSU-Degree-Resources.

A minimum of 120 units (180 quarter units) is required to complete a baccalaureate degree from the University of California. The University will award graduation credit for up to 70 semester (105 quarter) units of transferable coursework from a community college. Courses in excess of 70 semester units will receive subject credit and may be used to satisfy University subject requirements. Some campuses have limits on the number of transfer units that will be accepted. If your community college work is combined with credit from a four-year institution, there might be a problem. Please consult the Admissions Office at the UC campus that interests you.

In general, no UC course credit is given for a course completed after a more advanced course is completed in the same subject matter. Refer to www.assist.org for the UC transferable course list for specific information regarding limitations on credit for transfer.

Courses Accepted for Transfer to the University of California

(Information Subject to Change)

The University of California Office of the President (UCOP) annually reviews Saddleback College course offerings to determine which courses are similar in nature, scope, and content to UC offerings. Saddleback College's UC-transferable course listings are available on ASSIST at www.assist.org. Saddleback College courses which do not appear on the UC Transfer Course Agreement (TCA) and are numbered from 1 to 99 are either pending UC transfer credit review by the UC Office of the President, or were not approved as UC-transferable. Consult with a Saddleback College counselor and refer often to ASSIST at www.assist.org.

IGETC - The Intersegmental General Education Transfer Curriculum

(Information Subject to Change)

2021-2022 IGETC was not available at the time of publication. Once available, it is viewable at https://www.saddleback.edu/articulation/IGETCCSU-Degree-Resources**. Please meet with a counselor for the most up to date information.**

It is important to remember that coursework taken at other certifying community colleges will be certified only in areas certified by the community college where the course was completed on an approved California Community College course list in the year it was taken. Courses completed at non-certifying colleges and universities will be certified only when deemed equivalent to courses on approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and rigor standards.

Note: Coursework from Irvine Valley College or other community colleges with the same course number and/or title may not always be certified in the same category at Saddleback College for IGETC. Also similar coursework from accredited independent or private colleges will not always be certified unless the course content is deemed equivalent to courses on an approved California Community College course list or approved by Saddleback College faculty as meeting IGETC content and academic rigor standards.

Partial Certification of IGETC Requirements

Student may be partially certified if deficient no more than two courses. If partially certified, the student has the option of completing the one or two remaining courses at another community college or at the transfer institution until the beginning of the second year of transfer. Warning: Students need Area 1 and 2 completed to meet minimum transfer admission requirements. Therefore, partial certification that acknowledges a deficiency in Area 1 and/or 2 may also indicate a student does not meet minimum transfer requirements.

University of California General Education Breadth Requirements

As previously indicated, each University of California (UC) campus has unique graduation requirements. Articulation agreements listing equivalent Saddleback courses meeting general education breadth requirements for UC campuses are available in the Counseling Services office or refer to ASSIST website at www.assist.org

Articulation agreement information regarding course-to-course and major requirements for UC campuses is also available on ASSIST.

University of California Transfer Admission Programs

The UC campuses offer a variety of programs in support of transfer admission, particularly for community college students. Inquire in the Counseling Services office 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 or contact the Transfer Center.

University of California Transfer Planning Tools

The UC Transfer Admission Planner (TAP) is a free online tool designed for use by students transferring from California community colleges to track and plan their coursework. Students can use the TAP to enter their coursework (completed and planned) from the very beginning of their college careers, or at any point when they decide to transfer to a UC campus. The planner helps students track their progress toward meeting UC's minimum requirements, and allows UC staff to communicate important information to prospective transfer students. To create an account, please visit: https://uctap.universityofcalifornia.edu/students/

UC Pathways is a clear roadmap to prepare student for their major while being well positioned to graduate on time from any UC campus. Check out UC's Transfer Pathways Guide (https://pathwaysguide.universityofcalifornia.edu/college-pathways/0/0) to learn which courses at Saddleback will fulfill specific expectations of a Transfer Pathway. If there isn't a Pathway for your chosen major or the campus you wanted isn't listed in the Pathway for your chosen major, you can find the information you need in ASSIST.org

IGETC - The Intersegmental General Education Transfer Curriculum

(Information Subject to Change)

2020-2021 IGETC was not available at the time of publication. Once available, it is viewable at www.saddleback.edu/articulation.

Please meet with a counselor for the most up to date information.

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.

Requirements for the Associate Degree 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). (*BP 4100*)

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, Child and Adolescents Development, Communication Studies, Early Childhood Education, Economics, Elementary Teacher Education, English, Environmental Studies, Film, Television, and Electronic Media, Geography, Geology, Global Studies, History, Hospitality Management, 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 for more information.

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 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. Note: A letter grade is preferred by transfer institutions.
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

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

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.

https://apply.universityofcalifornia.edu/my-application/login

University of California information and online application.

www.californiacolleges.edu

Developed in collaboration with the California State University (CSU) and University of California (UC) to allow students to obtain information about higher education opportunities in California.

Independent California Colleges and Universities

There are over 83 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.   Students are advised to refer to the AICCU's website at www.aiccu.edu.

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.

New California Community Colleges Agreement with Private Colleges and Universities Marks Major Expansion of Associate Degree for Transfer Program.

Thanks to an agreement signed July 25, 2018 between the California Community Colleges and several AICCUs, California community college students who complete certain academic requirements are guaranteed transfer to a participating AICCU. Read more about the Associate Degree for Transfer (ADT) Commitment at www.aiccu.edu.

The following examples are illustrative of the variability of general education options for representative campuses accepting IGETC (IGETC/UC and/or IGETC/CSU options) and/or the CSU G.E. Certification pattern. The options listed for the example campuses are based upon information available at the time of catalog publication and are subject to change.

Example Campus	CSU G.E.	(CSU)IGETC	(UC)IGETC
Azusa Pacific Univ.		X+	
Biola Univ.		X+	
Chapman Univ.	X+	X+	X+
Concordia Univ.	X+	X+	X+
Dominican College San Rafael		X+	
Golden Gate University		X+	
Hope Int'l. Univ.		X*+	X+
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.

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.

1-299	Courses intended for certificates, associate degrees, occupational skills awards and transfer purposes
1-99	Courses which are parallel to baccalaureate-level courses that generally transfer to both CSU and UC. Exceptions to this rule are noted following the course description; in such cases, students should refer to the UC Course Agreement for details regarding credit limitations. UC transferable courses do not necessarily apply toward major credit. Students should consult a counselor and/or visit www.assist.org for information about course articulation for a particular major.
100-199	Courses which are parallel to baccalaureate-level courses that generally transfer to CSU but not to the UC.
200-299	Courses that are typically intended for certificate and associate degree programs or for skill development related to both basic skills and employment. Courses from several disciplines may be offered in this category of interest and provide value to all ages, but particularly to the mid-life and older-adult student. Course content is related to both skill development and acquisition of knowledge for second-career and personal development. These courses may occasionally carry transfer credit to four-year institutions, however, the receiving institution makes the determination whether to accept the course.
300-399	Basic skills courses. Courses in this range completed Fall 1988 and later are not applicable to associate degrees or certificates, nor do they carry transfer credit to four-year institutions. These courses do not count toward the 60-unit requirement for graduation and are not used in calculating students' grade point averages for associate degrees or certificates. A state-imposed restriction limits students to taking no more than 30 units of basic skills courses.
400-499	Courses which generally provide vocational training but are not degree applicable. Many of these courses are open-entry/open-exit and/or are scheduled for less than a full semester.
500-599	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.
700-799	Courses which generally provide Adult Education. These courses are noncredit and not degree applicable.
800-999	Courses which generally provide learning center hours that require concurrent enrollment in a designated course. These courses are traditionally offered in conjunction with English as a Second Language (ESL) and International Language courses to provide enhancement and practice skill in the associated course.

Reading Course Descriptions
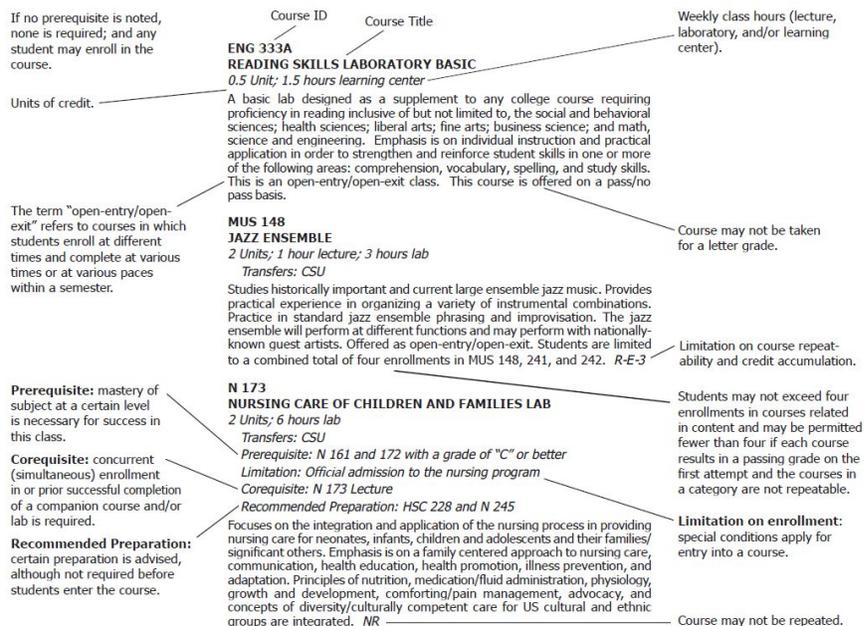
Coursework Standards and Expectations

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.

Prerequisite, 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.

Active Participatory Courses

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
Life Sculpture	ART 78, ART 79
Metalsmithing and Jewelry	ART 171 (formerly ART 228), ART 172 (formerly ART 229), ART 173 (formerly ART 230), ART 174 (formerly ART 231)
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 82 (formerly DANC 182), DANC 83 (formerly DANC 183)
Ballet	DANC 51, DANC 52, DANC 53, DANC 67, DANC 71 (formerly DANC 171)
Choreography	DANC 9, DANC 19
Dance Rehearsal & Performance	DANC 10, DANC 11, DANC 12 (formerly DANC 112), DANC 14 (formerly DANC 114)

DANCE	
Category	**Courses**
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)
Pilates/Conditioning	KNES 9, DANC 63, TA 63 (no longer offered effective Fall 2003), KNES 65/DANC 65 (DANC 65 no longer offered effective Fall 2021), KNES 38/DANC 38 (formerly KNES/DANC 138) (DANC 38 no longer offered effective Fall 2021)
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)

KINESIOLOGY	
Category	**Courses**
Aerobics	KNES 1, KNES 3, KNES 7, KNES 50, DANC 77 (formerly DANC 177)
Athletic Training	KNES 56, KNES 59 (formerly KNES 159)
Baseball	KNES 79, KNES 82 (no longer available as of Fall 2020)
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)
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 (DANC 65 no longer offered effective Fall 2021), KNES 38/DANC 38 (formerly KNES/DANC 138) (DANC 38 no longer offered effective Fall 2021)
Rock Climbing	KNES 63, KNES 88 (formerly KNES 100), KNES 89 (formerly KNES 101)
Soccer	KNES 72, KNES 73, KNES 175
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

KINESIOLOGY	
Category	**Courses**
Yoga	KNES 28, KNES 39 (formerly KNES 139), KNES 40, DANC 28 (formerly DANC 128)

MUSIC	
Category	**Courses**
Chamber Music	MUS 63, MUS 66 (no longer offered effective Fall 2019), 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 134 (formerly MUS 234), MUS 232 (no longer offered effective Fall 2017), MUS 233 (no longer offered effective Fall 2017)
Commercial Music Ensembles	MUS 39 (formerly MUS 122), MUS 182, MUS 184, MUS 187
Functional Skills	MUS 150 (formerly MUS 202), MUS 151 (formerly MUS 203), MUS 176, MUS 177
Guitar	MUS 60, MUS 61, MUS 62, MUS 171 (formerly MUS 260), MUS 173
Harpsichord	MUS 86 (formerly MUS 106), MUS 87 (formerly MUS 107), MUS 88 (formerly MUS 108), MUS 89 (formerly MUS 109)
Jazz Big Band	MUS 47, MUS 146 (formerly MUS 246)
Jazz Combos	MUS 140 (formerly MUS 240), MUS 197 (formerly MUS 297)
Jazz Ensemble	MUS 147 (formerly MUS 242), MUS 148, MUS 149 (formerly MUS 241)
Jazz Improv	MUS 46, MUS 140 (formerly MUS 240), MUS 190
Jazz Piano	MUS 112A (formerly MUS 252; formerly MUS 252A), MUS 112B (formerly MUS 252B), MUS 112C (formerly MUS 252C)
Keyboard Literature	MUS 58, MUS 78(formerly MUS 180), MUS 181, MUS 253 (no longer offered effective Fall 2018), MUS 255 (no longer offered effective Fall 2018), MUS 257 (no longer offered effective Fall 2018),
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 156 (formerly MUS 256), MUS 178, MUS 179
Professional Development for Musicians	MUS 152 (formerly MUS 206), MUS 153 (formerly MUS 207), MUS 154 (formerly MUS 208), MUS 155 (formerly MUS 209)
Vocal Ensemble	MUS 34, MUS 35
Voice	MUS 80, MUS 81, MUS 82

THEATRE ARTS	
Category	**Courses**
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 190 (formerly TA 7; formerly TA 290)
Audition and Interview Techniques	TA 108, TA 111 (formerly TA 211) no longer offered effective Fall 2021, TA 116 (formerly TA 214) no longer offered effective Fall 2020
Musical Theatre Study	TA 10, TA 107 (formerly TA 210), TA 212 (no longer offered effective Fall 2017)
Rehearsal and Performance	TA 15, TA 16, TA 17, TA 18 (no longer offered effective Fall 2017), TA 19, TA 113, TA 125 (no longer offered effective Fall 2021)
Theatre Interpretation	COMM 30 (formerly SP 30), TA 30 (no longer offered effective Fall 2015), COMM 32 (formerly SP 32), TA 32 (no longer offered effective Fall 2015)

Courses

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ACCT 207A ADVANCED ACCOUNTING I
3 Units 3 hours lecture
Prerequisite: ACCT 202A
Recommended Preparation: ACCT 202B
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ACCT 207B ADVANCED ACCOUNTING II
3 Units 3 hours lecture
Prerequisite: ACCT 207A
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ACCT 210 ACCOUNTING ETHICS
4 Units 4 hours lecture
Prerequisite: ACCT 1B
Recommended Preparation: ACCT 202A and ACCT 275
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ACCT 216 INDIVIDUAL INCOME TAX
4 Units 4 hours lecture
Recommended Preparation: ACCT 1A
Federal income tax rules and regulations. Practical applications of the Internal Revenue Code and regulations pertaining to the taxation of individuals are presented.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ACCT 221 ACCOUNTING INFORMATION SYSTEMS
3 Units 3 hours lecture
Prerequisite: ACCT 1B
Familiarization with accounting information systems development process including analysis, design, development, and implementation. Automation of accounting information systems studied through the use and application of computers.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ACCT 241 CREDIT AND FINANCIAL STATEMENT ANALYSIS I
3 Units 3 hours lecture
Recommended Preparation: ACCT 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 bio cultural adaptations. The supplemental laboratory class may be taken concurrently or within one year of completion of the lecture course.
Grading Method: GR - Letter Grade or Pass/No Pass
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 bicultural adaptations. This honors course in enriched by limited class size, seminar format, an extensive research project, and an academic poster presentation. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ANTH 1L BIOLOGICAL ANTHROPOLOGY LABORATORY
1 Unit 3 hours lab
Transfers: CSU, UC
Prerequisite: Must be taken concurrently with ANTH 1/ANTH 1H or within one year after completing ANTH 1/ANTH 1H.
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Credit may be earned in either ANTH 2 or 2H, but not both.
Grading Method: GR - Letter Grade or Pass/No Pass *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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ANTH 6 GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE
3 Units 3 hours lecture
Transfers: CSU, UC
Explores anthropological perspectives on issues of importance in an increasingly global society. Topics include immigration and citizenship, identity, ethnic conflict, religious diversity, economic development, and globalization.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ANTH 9 INTRODUCTION TO ARCHAEOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
An introduction to the concepts, theories, data, and models of anthropological archaeology that contribute to our knowledge of the human past. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ANTH 22 MEDICAL ANTHROPOLOGY - CULTURE, HEALTH, AND HEALING
3 Units 3 hours lecture
Transfers: CSU, UC
An introduction to the cross-cultural study of illness and healing practices. Explores the cultural, historical, political, and economic shaping of illness and examines variation in biomedical and healing systems. Topics covered include understandings of the body, belief systems about the nature and causation of illness, religion and ritual in a healing context, global epidemics, and inequality and health disparities.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ARCH 14 CALIFORNIA ARCHITECTURE
3 Units 3 hours lecture
Transfers: CSU, UC
The study of the architecture and the built environment of California from early times to the present. This course presents the important architects, buildings, cities, sites, development patterns and the overall history of architecture in California.
Grading Method: Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ARCH 42 DESCRIPTIVE DRAWING AND PERSPECTIVE
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation: ARCH 124A
Basic techniques of graphic communications. Construct 3D drawings, including obliques, isometrics, 1-pt. and 2-pt. perspectives. Construct basic shadows and shade.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ARCH 121 ADVANCED REVIT AND BUILDING INFORMATION MANAGEMENT II
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ARCH 120
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ARCH 200 DESIGN IN ARIZONA, RIVERSIDE AND PALM SPRINGS
1.5 Units 1 hour lecture 1.5 hours lab

Visit architecture and urban design in Arizona, Riverside and Palm Springs, including Taliesin, Biltmore, ASU, Arcosanti, Sedona, AZ straw-bale house and Mission Inn, Riverside. Students are responsible for lodging, meals, tours, and admission costs.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 ergonometric 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 Accredited Professional designations are also investigated. Identify approaches to sustainable architecture.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ARCH 261 ORANGE AND SAN DIEGO ARCHITECTURE
1 Unit 1 hour lecture 1 hour lab
Field study of 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 with an emphasis on examining historical, contemporary, and personal modes of expression across cultures.
Grading Method: GR - Letter Grade or Pass/No Pass
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 beginning ceramic handbuilding techniques with emphasis on theory and application of esthetic principles to the design of useful and decorative objects and spaces. Students are limited to a combined total of four enrollments in ART 10, 216, and 217.
Grading Method: GR - Letter Grade or Pass/No Pass
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 theory and application of esthetic principles to the design of useful and decorative objects and spaces. Students are limited to a combined total of four enrollments in ART 11, 12, and 13.
Grading Method: GR - Letter Grade or Pass/No Pass
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 including sectional forms, precision sizing and production techniques with emphasis on theory and application of aesthetic principles to the design of useful and decorative objects and spaces. Students are limited to a combined total of four enrollments in ART 11, 12, and 13.
Grading Method: GR - Letter Grade or Pass/No Pass
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 including large scale forms and studio practices emphasizing advanced theory and application of aesthetic principles to the design of useful and decorative objects and spaces. Students are limited to a combined total of four enrollments in ART 11, 12, and 13.
Grading Method: GR - Letter Grade or Pass/No Pass
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 processes of two-dimensional art through historical and contemporary contexts. An exploration of the basic elements of composition: line, shape, texture, value, color and spatial illusion. Application of those elements using the principles of design: balance, unity, rhythm, pattern & contrast. Development of visual vocabulary and individual aesthetic through lecture presentations, studio projects, problem solving, written assignments and research. Field trips required to meet course objectives. C-ID: ARTS 100
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 41 THREE-DIMENSIONAL DESIGN
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 40
This course examines the ideas, concepts and processes of 3-Dimensional artworks as they apply to historical and contemporary artists and collaboratives. An introduction to the applications of three-dimensional art & design, including the study of the basic principles and elements as they pertain to space, form and the built environment. This course focuses on

the development of visual literacy for effective communication through lecture presentations/demonstrations, studio projects, problem solving, written assignments, critical discourse and research. Students design, create, and exhibit artworks that pertain to the historical movements covered. Field trips required to meet course objectives. C-ID: ARTS 101
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 42 COLOR THEORY AND PRACTICE
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 40 or ART 80
Historical and contemporary color theories, principles and applications of subtractive and additive color processes. Investigates the cultural and physical subjectivity of color perception as it applies to art and artists working in diverse media. Explores the conceptual and technical aspects of developing a functional color palette for effective communication through lectures, studio projects and research. Develop a range of color applications through exposure to diverse media and critical discourse. Students design, create, and exhibit artworks that pertain to the historical and cultural movements covered. Planning and execution of a collaborative public artwork using color and composition to communicate socially engaged themes. Field trips required. C-ID: ARTS 270
Grading Method: GR - Letter Grade or Pass/No Pass
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. Emphasizes portfolio development for employment as an artist or related worker. Theory and studio work in the application of esthetic principles to the design and painting of useful and decorative objects and spaces. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250.
Grading Method: GR - Letter Grade or Pass/No Pass
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 advanced skills in oil and/or acrylic. Painting from life, students will learn to understand the importance of warm and cool value relationships. Students will work with a limited palette to design useful and decorative objects and spaces. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 the painted surface and composition. Explores representational and non-representational subject matter in a variety of media including acrylic and oil. Emphasis on portfolio development for employment as an artist or related worker. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250.
Grading Method: GR - Letter Grade or Pass/No Pass
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
Introduction to painting the human figure from observation. Topics include fundamental structural drawing concepts, color theory, light logic and the historical and contemporary roles of figurative painting in the visual arts. Students will learn both descriptive and interpretive approaches to painting the figure. Students are limited to a combined total of four enrollments in ART 53 and 54.
Grading Method: GR - Letter Grade or Pass/No Pass
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 range of expressive and descriptive painting techniques. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 62 INTAGLIO (ETCHING) AND RELIEF III
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 61
Recommended Preparation: ART 80
Designed with 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Theoretical issues and critical analysis of sculptural works will also be addressed. Field trips and lectures will acquaint students with historical and current sculptural practices.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 71 ADDITIVE SCULPTURE
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 70
An intermediate course covering contemporary practices, theory, critical analysis and practical techniques in the expansive field of sculpture. Students will further develop skills needed to translate ideas into three-dimensional form towards creating conceptual artworks as well as useful and decorative objects and spaces. Projects emphasize creative self-expression, artistic inquiry and process, with on focus on contemporary practices. Field trips and lectures will acquaint students with historical and current sculptural practices.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 72 SUBTRACTIVE SCULPTURE
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 71
An advanced course focused on individual involvement in the studio practice of making sculpture and the design of useful and decorative objects and spaces. Emphasis focused on conceptual development, refinement of technique, choice of materials, professional presentation, portfolio development, and exhibition. Students will focus on the development of a project/series of

works that expresses their individual proclivities as an artist. Projects will be proposed and formulated by each student with the guidance of the instructor. Students will develop a portfolio for entering a career in the arts. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Topics include an introduction to human anatomy and the historical and contemporary roles of figurative sculpture in the visual arts. Portfolio development in this course will prepare students for employment as an artist or related worker. Students are limited to a combined total of four enrollments in ART 78 and 79.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Topics include further study of human anatomy and creation of armatures, and take a mold of completed sculptures. Portfolio development in this course will prepare students for employment as an artist or related worker. Students are limited to a combined total of four enrollments in ART 78 and 79.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Theory and studio work in the application of esthetic principles to the design of useful drawings and decorative drawings. Students are limited to a combined total of four enrollments in ART 80, 81, and 82.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Theory and studio work in the application of esthetic principles to the design of drawings. Students are limited to a combined total of four enrollments in ART 80, 81, and 82.
Grading Method: GR - Letter Grade or Pass/No Pass
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 development. Students are limited to a combined total of four enrollments in ART 80, 81, and 82.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required. Students are limited to a combined total of four enrollments in ART 85, 86, and 87.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 140 BEGINNING GRAPHIC DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required as part of class requirements.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 142 PACKAGE DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 143 PROFESSIONAL PRACTICES: LAUNCHING A CREATIVE CAREER
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Limitation: Successful completion of at least 2 studio art/design courses. Students must have a portfolio of at least 15 completed works before starting the class.
Intended to assist students in the advanced stage of their art/design education to make a successful transition from school to the professional world. Through research, lectures, discussions, tutorials, and class field trips, students will be exposed to a variety of professional models and a broad range of issues relevant to an independent artist/designer. Students will set goals, and work on projects that reflect their individual objectives as creative entrepreneurs. This includes working on a business plan, assembling a professional portfolio and may also include seeking gallery representation. Class includes visits to local artists and creative businesses in the local community, providing an invaluable network of contacts
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required as part of class requirements.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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/editioning of imagery on an etching press. Students are limited to a combined total of four enrollments in ART 60, 61, 62, and 164.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 171 METALSMITHING & JEWELRY I
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Recommended Preparation: ART 40 or ART 41
Introduction to a wide range of methods, techniques, and materials used to create and design jewelry, small-scale metal artwork and useful/decorative objects. Includes examination of the history and contemporary practices of jewelry-making and small metal casting/fabrication with a global cultural perspective (formerly ART 228). Students are limited to a combined total of four enrollments in ART 171, 172, 173, 174, 228, 229, 230, and 231.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 172 METALSMITHING & JEWELRY II
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Prerequisite: ART 171
Builds on skills and techniques learned in ART 171 in the design of useful and decorative jewelry objects. Students will design and create objects utilizing the following techniques: intermediate level soldering, wire fabrication, annealing, casting, intermediate level cold connections, etching, and stone setting (formerly ART 229). Students are limited to a combined total of four enrollments in ART 171, 172, 173, 174, 228, 229, 230, and 231.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 173 METALSMITHING & JEWELRY III
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Prerequisite: ART 172
Builds on skills and techniques learned in ART 172 in the design of useful and decorative objects. Students will design and create objects utilizing the following techniques: advanced soldering,

hollow construction, wire fabrication, annealing, hydraulic forming, and advanced cold connections (formerly ART 230). Students are limited to a combined total of four enrollments in ART 171, 172, 173, 174, 228, 229, 230, and 231.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 174 METALSMITHING & JEWELRY IV
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Prerequisite: ART 173
Builds on skills and techniques learned in ART 173 in the design of useful and decorative jewelry objects. Students will design and created objects utilizing the following techniques: advanced soldering, enameling, mechanisms, clasps, and advanced stone (formerly ART 231). Students are limited to a combined total of four enrollments in ART 171, 172, 173, 174, 228, 229, 230, and 231.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 175 METAL CASTING
3 Units 1.5 hours lecture 4.5 hours lab
Transfers: CSU
Recommended Preparation: ART 70
An introductory course covering a general history, theory, critical analysis and practical applications in cast bronze sculpture and foundry processes. Projects emphasize creative self-expression in the design of useful and decorative objects in non-ferrous metals using direct modeling of wax, basic mold making, and introduction to non-wax casting materials. Portfolio development in this course will prepare students for employment as an artist or related worker.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 216 CERAMICS - HANDBUILDING II
3 Units 1.5 hours lecture 4.5 hours lab
Prerequisite: ART 10
A continuation of basic handbuilding techniques including mold making and slip casting with emphasis on theory and application of esthetic principles to the design of useful and decorative objects and spaces. Students are limited to a combined total of four enrollments in ART 10, 216, and 217.
Grading Method: GR - Letter Grade or Pass/No Pass
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 including advanced mold making, slip casting, functional and sculptural construction methods with emphasis on advanced theory and application of esthetics principles to the design of useful and decorative objects and spaces. Students are limited to a combined total of four enrollments in ART 10, 216, and 217.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ART 240 INTERMEDIATE GRAPHIC DESIGN
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: GD 140 or ART 140
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Art History

ARTH 20 ART APPRECIATION
3 Units 3 hours lecture
Transfers: CSU, UC
A general introduction to art and visual culture designed to develop an understanding of terminology, themes, and art forms, including examples of painting, sculpture, and architecture across time and diverse cultures. Attendance at field trips may be required. C-ID ARTH 100. C-ID: ARTH 100
Grading Method: GR - Letter Grade or Pass/No Pass
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 contemporary art forms. Field trips may be required to complete course objectives.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required to complete course objectives.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ARTH 24 INDIGENOUS ARTS OF THE AMERICAS
3 Units 3 hours lecture
Transfers: CSU, UC
Survey of the indigenous artistic traditions of Meso, Central, and South America extending from Mexico through Peru from circa 1000 BC to the Conquest. Addresses historical and contemporary cultures of the Western hemisphere (pre-Columbian) from a historical and ethnographic context, examining the formal elements of painting, sculpture, architecture, ceramics, and textiles in the context of native socio-political systems and religious beliefs. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 1A or ENG 1AH.
Survey of the art of the Western world emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives. C-ID: ARTH 120
Grading Method: GR - Letter Grade or Pass/No Pass
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. Additional attendance at lectures and special exhibitions may be required to meet course requirements.

Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required to complete course objectives.

Grading Method: GR - Letter Grade or Pass/No Pass
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).

Grading Method: GR - Letter Grade or Pass/No Pass
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).

Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass
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 deep sky objects including nebulae and galaxies. Field trips required to fulfill the course objectives.

Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 102 AUTOMOTIVE ENGINE PERFORMANCE-ELECTRONICS AND IGNITION
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Prerequisite: AUTO 100
Recommended Preparation: AUTO 101 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 103 AUTOMOTIVE ENGINE PERFORMANCE-FUEL AND EMISSION SYSTEMS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Prerequisite: AUTO 100
Recommended Preparation: AUTO 101 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 105 AUTOMOTIVE POWER TRAIN
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Prerequisite: AUTO 100
Recommended Preparation: AUTO 101 and 207
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 106A AUTOMOTIVE SUSPENSION AND ALIGNMENT
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 106B AUTOMOTIVE BRAKE SYSTEMS
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 107 AUTOMATIC TRANSMISSION
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 108 AUTOMOTIVE AIR CONDITIONING
3 Units 2.5 hours lecture 1.5 hours lab
Transfers: CSU
Prerequisite: AUTO 100
Limitation: Completion of EPA Section A609 Certification
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 (BAR) certified course meets one of the requirements for taking the State of California Bureau of Automotive Repair licensed repair smog check technician examination. Course content will include Acceleration Simulation Mode (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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 204B HIGH PERFORMANCE ENGINE BLUEPRINTING - CYLINDER HEADS
3 Units 2.5 hours lecture 1.5 hours lab
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 205 ADVANCED SMOG UPDATE TRAINING
0.5 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 207 AUTOMOTIVE ENGINEERING FUNDAMENTALS
3 Units 3 hours lecture
Recommended Preparation: AUTO 100 and MATH 353
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 229 DIESEL TECHNOLOGY
3 Units 2.5 hours lecture 1.5 hours lab
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

AUTO 232 DIESEL SYSTEMS TECHNOLOGY
3 Units 2.5 hours lecture 1.5 hours lab
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Biology

BIO 3AH HONORS 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. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BIO 3BH HONORS GENERAL BIOLOGY II
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: BIO 3AH or BIO 4A
Builds upon BIO 3AH 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 may be required to fulfill the objectives of the course.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BIO 3C BIOCHEMISTRY AND MOLECULAR BIOLOGY
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: BIO 3AH or BIO 4A AND CHEM 12A
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 foundations to the course. Intended for biology majors completing the Biology AS-T degree; may also be taken by Biology A.S. majors. Field trips may be required to fulfill objectives of the course. C-ID: BIOL 190
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BIO 4B PRINCIPLES OF ORGANISMAL BIOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: BIO 4A
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. Field trips may be required to fulfill the objectives of the course. C-ID: BIOL 140
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 AND CHEM 108 or one year of high school chemistry with a grade of "C" or better

Recommended Preparation: BIO 11

An examination of the fundamental biological concepts as they apply to viruses, bacteria, fungi, helminths and protozoa. Emphasis is placed on the prokaryotic cell. Theoretical as well as practical applications are discussed in such topics as bacterial cell structure, metabolism, genetics and mechanisms of infectious disease. Human immune defenses, chemotherapy and antibiotics are also discussed. Includes laboratory techniques and methods.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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 may supplement laboratory work.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

NR

BIO 28 PLANTS AND HUMAN AFFAIRS
3 Units 3 hours lecture

Transfers: CSU, UC

An introduction to the importance of plants and their products, in the shaping of human affairs and civilization. The history of agriculture, the utilization of plant products, and current environmental and social issues surrounding agriculture,

including genetic engineering will be covered. For non-science majors.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

NR

BIO 31 BIOLOGY OF PLANTS
4 Units 3 hours lecture 3 hours lab

Transfers: CSU, UC

Students will learn basic biological principles that are common to all eukaryotes and those that are specific to plants. The course introduces students to the anatomy, physiology, genetics, evolution, ecology and human uses of vascular plants. Laboratory exercises may include greenhouse and field trip activities.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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. Field trips may be required to fulfill the objectives of this course.

Grading Method: GR - Letter Grade or Pass/No Pass

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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 solve, 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 solve, 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BIO 233 DESERT ECOSYSTEMS FIELD STUDIES
1 Unit 0.5 hour lecture 1.5 hours lab
An intro 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Off campus travel may be required to meet course objectives. Credit may be earned for BUS 1 or 1H, but not both. Letter grade only.
Grading Method: GN - Letter Grade only
NR

BUS 10 BUSINESS STATISTICS
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
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 business and economics.
Grading Method: Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 practice interviewing others and being interviewed. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BUS 103 BUSINESS ENGLISH
3 Units 3 hours lecture
Transfers: CSU
Correct English usage in business environments. Provides comprehensive instruction of grammar, punctuation, spelling, usage, and style as well as sentence structure. Needed for clear, concise, effective writing.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BUS 104 BUSINESS COMMUNICATION
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: BUS 103 or ENG 1A or ENG 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. They will learn 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BUS 109 E-COMMERCE MARKETING
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: BUS 135 Marketing and/or BUS 105 Social Media Marketing
Explores the operations, platforms, status, ethics, and emerging technologies of electronic commerce (e-commerce) from a marketer's perspective. Investigates a wide range of current, continuing, and emerging electronic commerce issues and implications for marketers in the dynamic e-commerce environment.
Grading Method: GR - Letter Grade or Pass/No Pass
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, and making business/workplace decisions.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BUS 205 BUSINESS MATH
3 Units 3 hours lecture
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, business statistics, stocks and bonds, and distribution of ownership and profits. (formerly ACCT 214)
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

BUS 421NC NONPROFIT BUSINESS MANAGEMENT
0 Unit 2 hours lecture
Course covers management best practices for leading a nonprofit organization. Covers major areas of responsibility for nonprofit leaders, including mission, strategy, managing employees and volunteers, social enterprise, operations, board governance, and marketing and social media.
Grading Method: Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

BUS 422NC NONPROFIT BUSINESS FINANCE
0 Unit 2 hours lecture
This course covers the finance and development (fundraising) aspects of a nonprofit organization. Covers major areas of responsibility for nonprofit finance, including understanding financial statements, budgeting, resource allocation, and grant writing.
Grading Method: Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

BUS 423NC LEGAL ASPECTS OF NONPROFIT ORGANIZATIONS
0 Unit 1 hour lecture
Prerequisite: BUS 422NC
Legal aspects of starting and operating a nonprofit organization including legal structure, receiving and maintaining tax-exempt status, trustee and director liability, and Internet considerations.
Grading Method: Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

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. C-ID: CHEM 110
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CHEM 1B GENERAL CHEMISTRY
5 Units 3 hours lecture 6 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 1A and MATH 124
A continuation of Chem 1A. Topics include equilibria, acids/bases, thermodynamics, electrochemistry, kinetics, coordination chemistry, nuclear chemistry, and qualitative analysis. C-ID: CHEM 120S
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: CHEM 150
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Child Development

CDE 401NC FAMILY CHILDCARE BUSINESS PRACTICES
0 Unit 24 hours lecture
Addresses regulations, trends, objectives, business policies and financial management of a family childcare home. Emphasis on management, regulations and administrative tools needed to open and operate a family childcare home.
Grading Method: PN - Pass/No Pass
NR

CDE 402NC FAMILY CHILDCARE CURRICULUM AND ENVIRONMENT
0 Unit 24 hours lecture
Prerequisite: CDE 401NC
Examines indoor and outdoor environments in a family childcare setting as the basis for curriculum and care of infants, toddlers, preschool and school age children. Emphasis on assessing and creating developmentally appropriate learning spaces in a home based program which support learning for children in all learning domains as described in the CA Infant/Toddler and Preschool Learning Foundations and Frameworks. Off campus site visit required to meet learning objectives.
Grading Method: PN - Pass/No Pass
NR

Child Development and Education

CDE 7 CHILD GROWTH AND DEVELOPMENT
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or 1AH
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. CAP Aligned. C-ID: CDEV 100
Grading Method: GN - Letter Grade only
NR

CDE 15 CHILD, FAMILY, AND COMMUNITY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or 1AH
An examination of the developing child, birth through high school, 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, CAP Aligned. C-ID: CDEV 110
Grading Method: GN - Letter Grade only
NR

CDE 18 EXCEPTIONAL CHILDREN
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or 1AH
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. 30 hours of fieldwork are required in a variety of settings with special education students. DS5.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CDE 31 EDUCATIONAL PSYCHOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or 1AH
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).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CDE 41 SECONDARY SCHOOL TEACHING
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CDE 90 INTRO TO ELEMENTARY EDUCATION
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: CDE 7 or CDE 7H, and eligibility for ENG 1A or 1AH
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 California 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
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CDE 101 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CDE 7 or CDE 7H, and eligibility for ENG 1A or ENG 1AH
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, CAP aligned. C-ID: ECE 120
Grading Method: GN - Letter Grade only
NR

CDE 110 INTRODUCTION TO CURRICULUM
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: CDE 7 or CDE 7H and CDE 101
Limitation: Proof of current state mandated immunizations and negative TB test required for participation.
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
An overview of knowledge and skills related to providing developmentally appropriate curriculum and environments for infants and young children. Explores teaching strategies and curriculum development based on theoretical frameworks, observation, and assessment. Emphasizes reflective practice, and the teacher's role in supporting development and learning across the curriculum to meet the needs of all learners in play based settings, including all content areas. Requires a minimum of 49.8 hours lab supervised by CA Master Teacher. DS3, CAP Aligned. C-ID: ECE 130
Grading Method: GN - Letter Grade only
NR

CDE 111 CHILD GUIDANCE AND COMMUNICATION
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: Eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
NR

CDE 112 HEALTH, SAFETY, AND NUTRITION
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CDE 101, CDE 7 or CDE 7H, and eligibility for ENG 1A or 1AH
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, CAP Aligned. C-ID: ECE 220
Grading Method: GN - Letter Grade only
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, and eligibility for ENG 1A or 1AH
Presents an integrated approach to developmentally appropriate science and math curriculum in early childhood settings for children 0-8. 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.
Grading Method: GN - Letter Grade only
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, and eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
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, and eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
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 15, and eligibility for ENG 1A or 1AH
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. CAP aligned. C-ID: ECE 230
Grading Method: GN - Letter Grade only
NR

CDE 119 CHALLENGING BEHAVIORS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CDE 7 OR CDE 7H and eligibility for ENG 1A or 1AH
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 (formerly CDE 261).
Grading Method: GN - Letter Grade only
NR

CDE 120 OBSERVATION AND ASSESSMENT
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CDE 101, CDE 110, and eligibility for ENG 1A or 1AH
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. CAP aligned. C-ID: ECE 200
Grading Method: GN - Letter Grade only
NR

CDE 121 PRACTICUM-THE STUDENT TEACHING EXPERIENCE
4 Units 2 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: Eligibility for ENG 1A or ENG 1AH
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. CAP Aligned. DS3. C-ID: ECE 210
Grading Method: GN - Letter Grade only
NR

CDE 123 INFANT AND TODDLER DEVELOPMENT
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: CDE 101 and Eligibility for ENG 1A or 1AH
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. DS4, CAP Aligned.
Grading Method: GN - Letter Grade only
NR

CDE 124 PRESCHOOL AND EARLY PRIMARY CHILD DEVELOPMENT
3 Units 3 hours lecture
Transfers: CSU

Recommended Preparation: Eligibility for ENG 1A or 1AH
Physical, cognitive, and social emotional development topics specifically related to children ages 3-6 years old. Includes physical and mental health including brain development; creativity and problem solving; and social and emotional development and supports. Addresses developmentally appropriate interactions, contextual influences, and the role of culture and families in children's development. CAP Aligned.
Grading Method: GN - Letter Grade only
NR

CDE 126 SCHOOL AGE AND ADOLESCENT DEVELOPMENT
3 Units 3 hours lecture
Transfers: CSU

Recommended Preparation: Eligibility for ENG 1A or 1AH
Physical, cognitive, social, and emotional, development of middle and adolescent children. Covers theoretical frameworks and various contexts in which development occurs, 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. Students will observe, record, analyze and interpret behaviors as they relate to developmental principles, theories and current research.
Grading Method: GN - Letter Grade only
NR

CDE 127 ADULT SUPERVISION AND MENTORING
3 Units 3 hours lecture
Transfers: CSU

Recommended Preparation: CDE 101, CDE 110, and Eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
NR

CDE 128 ADMINISTRATION I - PROGRAMS IN EARLY CHILDHOOD EDUCATION
3 Units 3 hours lecture
Transfers: CSU

Recommended Preparation: CDE 101, CDE 110, and Eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
NR

CDE 129 ADMINISTRATION II-PERSONNEL & LEADERSHIP EARLY CHILDHOOD ED
3 Units 3 hours lecture
Transfers: CSU

Recommended Preparation: CDE 101, CDE 110, and Eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
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, and Eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
NR

CDE 135 INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS
3 Units 3 hours lecture
Transfers: CSU

Recommended Preparation: CDE 101, CDE 15, CDE 7, CDE 110, and Eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
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, CDE 110, and Eligibility for ENG 1A or 1AH
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.
Grading Method: GN - Letter Grade only
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 in preschool settings, including garden site development, plant selection, developmentally appropriate experiences for children, ideas for funding and maintaining school gardens, and tips for working with volunteer helpers.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CHI 3 INTERMEDIATE CHINESE
5 Units 5 hours lecture

Transfers: CSU, UC
Prerequisite: CHI 2 or 3 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CTVR 4 CINEMATIC STORYTELLING
3 Units 3 hours lecture
Transfers: CSU, UC
Critical evaluation of principles, techniques and their implication in narrative, documentary and experimental filmmaking. Viewing and and critiquing films of various movements, analyzing the appearance of film space and film time through cinematography, mise-en-scene, editing, sound and special effects.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CTVR 111 AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM
3 Units 3 hours lecture 1 hour lab

Transfers: CSU
Recommended Preparation: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CTVR 113 RADIO BROADCASTING
3 Units 3 hours lecture 1 hour lab

Transfers: CSU
Recommended Preparation: CTVR 110
A hands-on introduction to radio broadcasting principles and techniques for producing radio shows in a variety of formats. Exploration of the radio industry, station structure, career opportunities and emerging broadcast platforms. Radio program produced by the student will be broadcast on the college radio station, OC Rock Radio.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CTVR 114 RADIO STATION ACTIVITIES
2 Units 2 hours lecture 1 hour lab

Transfers: CSU
Recommended Preparation: CTVR 110 and 113
Radio station operations. Development of on-air performance and broadcast equipment skills, with an emphasis on developing a format radio show. Students host live or voice-tracked air shifts on KSBR-FM HD2 and OC Rock Radio.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CTVR 233 FILM PRODUCTION III
3 Units 3 hours lecture 1 hour lab
Prerequisite: CTVR 32
Recommended Preparation: CTVR 42, 140, 262
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CTVR 253 DIGITAL SPECIAL EFFECTS
3 Units 3 hours lecture 1 hour lab
Prerequisite: CTVR 151
Introduction to creating digital special effects in the non-linear editing suite, using state-of-the-art special effects software including After Effects. Application of graphic images in digital video projects with techniques including key-frame animations, text effects, visual effect filters, and compositing.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Communication Studies

COMM 1 COMMUNICATION FUNDAMENTALS
3 Units 3 hours lecture

Transfers: CSU, UC
Recommended Preparation: ENG 1A/1AH with a grade of "C" or better
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 (formerly SP 1).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 1H HONORS COMMUNICATION FUNDAMENTALS
3 Units 3 hours lecture

Transfers: CSU, UC
Recommended Preparation: ENG 1A or 1AH with a grade of "C" or better
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 COMM 1 or COMM 1H, but not both (formerly SP 1H). Letter grade only.
Grading Method: GN - Letter Grade only
NR

COMM 2 PERSUASION
3 Units 3 hours lecture

Transfers: CSU, UC
Recommended Preparation: COMM 1/1H 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, l

ogic, reasoning, and fallacies as they relate to the use of evidence, speaker credibility, and emotional appeals directed toward various types of audiences (formerly SP 2).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 3 ARGUMENTATION AND DEBATE
3 Units 3 hours lecture

Transfers: CSU, UC
Introduction to the principles of argumentation and competitive debate. Students gain a practical understanding of effective strategies for the construction and refutation of arguments that can be utilized in myriad personal and public situations. Research methodology, use of evidence, communication ethics, and the fundamentals of critical thinking will be emphasized (formerly SP 3).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 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 (formerly SP 5).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 8 GENDER COMMUNICATION
3 Units 3 hours lecture

Transfers: CSU, UC
Focuses on the interactive relationships between gender and communication. Includes verbal and nonverbal aspects of communication; social and cultural expectations and roles; problem analysis and decision-making specific to gender conflict. Enables students to appreciate gender differences and to listen and interact with others more effectively (formerly SP 8).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 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. Current events, film, and multimedia used to analyze the impact of intercultural studies in today's society (formerly SP 20).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 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 (formerly SP 30). Students are

limited to a combined total of four enrollments in COMM/SP/TA 30 and COMM/SP/TA 32.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 32 INTERPRETERS' THEATRE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: COMM 30
Stressing the techniques of script preparation, direction, and staging of literature. Coursework will culminate in a student-performed and directed Interpreters' Theatre (formerly SP 32). Students are limited to a combined total of four enrollments in COMM/SP/TA 30 and COMM/SP/TA 32.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COMM 106 FORENSICS ACTIVITY
1 Unit 1 hour lecture 1 hour lab
Transfers: CSU
Preparation for and presentation of materials for college-sponsored speech and debate activities and tournaments. Events include debate, platform speaking, and oral interpretation of literature. Participation is required for credit. Offered as open-entry/open-exit (formerly SP 106).
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

COMM 106 FORENSICS ACTIVITY
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Preparation for and presentation of materials for college-sponsored speech and debate activities and tournaments. Events include debate, platform speaking, and oral interpretation of literature. Participation is required for credit. Offered as open-entry/open-exit (formerly SP 106).
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

COMM 106 FORENSICS ACTIVITY
3 Units 1 hour lecture 6 hours lab
Transfers: CSU
Preparation for and presentation of materials for college-sponsored speech and debate activities and tournaments. Events include debate, platform speaking, and oral interpretation of literature. Participation is required for credit. Offered as open-entry/open-exit (formerly SP 106).
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

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, networking, ethics, security, the Internet, the cloud and system and application software. Students apply these concepts and methods through hands-on projects to develop computer-based solutions to business problems. C-ID: ITIS 120
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIM 10 INTRODUCTION TO INFORMATION SYSTEMS
3 Units 2 hours lecture 3 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIM 112 MICROSOFT OFFICE
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Provides exploration of Microsoft Office 365 cloud solution. Course focuses on using a cloud solution to create Word documents, Excel spreadsheets and PowerPoint presentations that are both universally available and editable on PC/Mac, tablets and smartphones. This cloud solution entails using Microsoft's OneDrive for storage and Office 365 applications such as Excel, Word, PowerPoint and others.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIM 120 COMPUTER LITERACY
1.5 Units 1 hour lecture 1.5 hours lab
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, using modern day mobile devices like tablets and smartphones, Use of intelligent devices as a method of telecommunication 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIM 121A KEYBOARDING FOR COMPUTERS - BEGINNING
1.5 Units 0.5 hour lecture 3 hours 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. Course provides training to be able to type 15 words per minute.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIM 121B KEYBOARDING FOR COMPUTERS - INTERMEDIATE
1.5 Units 0.5 hour lecture 3 hours 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. Course provides training to be able to type 30 words per minute.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIM 121C KEYBOARDING FOR COMPUTERS - ADVANCED
1.5 Units 0.5 hour lecture 3 hours 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. Course provides training to be able to type 45 words per minute.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIS 405NC WORKFORCE PREPARATION DATABASE SQL
0 Unit 2 hours lecture 3 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.
Grading Method: NC - Noncredit
R-E-3

CIS 415NC CREATING WEB PAGES USING ADOBE, HTML, CSS AND OTHER TOOLS
0 Unit 2 hours lecture 3 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.
Grading Method: NC - Noncredit
NR

CIS 460NC WORKFORCE PREP WEB DEVELOPMENT INTRODUCTION PROGRAMMING
0 Unit 2 hours lecture 3 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.
Grading Method: NC - Noncredit
NR

CIS 471NC MCSE CERTIFICATION EXAM PREP I
0 Unit 2 hours lecture 3 hours lab
Prepares students for Microsoft Certified Solutions Expert (MCSE) initial Windows Server exam. Specifically course covers installing and configuring both the latest and most popular version of Windows Server Operating System through simulations, practice tests, and feedback. Course can be repeated.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIS 472NC MCSE CERTIFICATION EXAM PREP II
0 Unit 2 hours lecture 3 hours lab
Prerequisite: CIS 471NC
Prepares students for Microsoft Certified Solutions Expert (MCSE) Windows Server exam II, presently either MCSE 70-741 and/or 70-411. Specifically course covers intermediate concepts in configuring and administering latest and/or most popular Windows Server operating system through simulations, practice tests, and feedback. Course can be repeated.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIS 473NC MCSE CERTIFICATION EXAM PREP III
0 Unit 2 hours lecture 3 hours lab
Prerequisite: CIS 472NC or equivalent
Prepares students for Microsoft Certified Solutions Expert (MCSE) advance Windows Server exams, presently either MCSE 70-742/743 and/or 70-412. Specifically course covers advance service concepts using the latest and/or most popular Windows Server operating system through simulations, practice tests, and feedback. Course can be repeated.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIS 480NC CCENT CISCO CERTIFIED ENTRY LEVEL TECHNICIAN
0 Unit 2 hours lecture 3 hours lab
Prerequisite: CIS 481NC or equivalent
Qualifies the student to take the CCNA 2 exam in the CCNA 7.0

network academy. This course covers: configuring devices by using security best practice, forwarding data with Layer 2 switches forward, VLANs and trunking in a switched network, Inter-VLAN Routing Troubleshooting, STP redundancy in a Layer 2 network, EtherChannel, DHCPv4 across multiple LANs, SLAAC and DHCPv6, dynamic address allocation in IPv6 networks, FHRP, LAN security, switch security, WLANs for network connectivity, and WLAN using a wireless router and WLC. Course also covers how routers use information in packets to make forwarding decisions, configuring IPv4 and IPv6 floating static routes and troubleshooting static and default route configurations.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIS 481NC CCNA 1 CISCO CERTIFIED NETWORK ASSOCIATE
0 Unit 2 hours lecture 3 hours lab
Prerequisite: CIS 480NC
Qualifies the student to take first CCNA exam in the CCNA 7.0 network academy. This course covers: advances in modern network technologies, implementing initial settings including passwords, IP addressing, and default gateway parameters on a network switch and end devices. Course explains how network protocols enable devices to access local and remote network resources, and how physical layer protocols, services, and network media support communications across data networks. Course also covers calculating numbers between decimal and binary.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIS 482NC CCNA 2 CISCO CERTIFIED NETWORK ASSOCIATE
0 Unit 2 hours lecture 9.04 hours learning center
Prerequisite: CIS 481NC or equivalent
Qualifies the student to take the CCNA 2 exam in the CCNA 7.0 network academy. This course covers: configuring devices by using security best practice, forwarding data with Layer 2 switches forward, VLANs and trunking in a switched network, Inter-VLAN Routing Troubleshooting, STP redundancy in a Layer 2 network, EtherChannel, DHCPv4 across multiple LANs, SLAAC and DHCPv6, dynamic address allocation in IPv6 networks, FHRP, LAN security, switch security, WLANs for network connectivity, and WLAN using a wireless router and WLC. Course also covers how routers use information in packets to make forwarding decisions, configuring IPv4 and IPv6 floating static routes and troubleshooting static and default route configurations.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

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 such as Microsoft Word. Students will utilize program features to create, edit, and format documents for personal and business use.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Using Microsoft Excel students will learn how to create workbooks, implement formulas/equations, format tables, perform lookup, create charts, and access databases.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMA 105 MICROSOFT EXCEL FOR DATA ANALYTICS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: CIMA 104 and knowledge of pivot tables
Analysis of organizational data for business decision making using Excel. Data modeling techniques will be used to data mine and organize data from a variety of different sources including databases, text data and unstructured data repositories. Students will work with data to correct errors, combine different sources of data together and format the results for understanding. Popular data analytics tools Microsoft's Power BI, Tableau and other tools will be used in the course for data analytics and data visualization.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Course also includes desktop Access database integration with Office 365 using SharePoint as cloud drive and Microsoft PowerApps as the Web/Mobile interface.
Grading Method: GR - Letter Grade or Pass/No Pass
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 such as Microsoft PowerPoint. Students will create a variety of presentation formats.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMA 204 ADVANCED SPREADSHEETS - EXCEL
3 Units 2 hours lecture 3 hours 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, sumifs, templates and styles and prepare workbooks for distribution. Use collaboration tools, data analysis, solver, and scenario features. Audit worksheets.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMA 212 MANAGING PROJECTS WITH MICROSOFT PROJECT
3 Units 2 hours lecture 3 hours lab
Learn to create a complete Microsoft 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMA 223A COMPUTERIZED ACCOUNTING - QUICKBOOKS--BEGINNING
1.5 Units 1 hour lecture 1.5 hours lab
Recommended Preparation: CIMN 100A
Provides background and training in the use of QuickBooks software in the Windows environment. Will cover four active versions of QuickBooks: Online, Pro, Premier and Enterprise. 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).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMA 223B COMPUTERIZED ACCOUNTING - QUICKBOOKS--ADVANCED
1.5 Units 1 hour lecture 1.5 hours lab
Recommended Preparation: CIMA 223A
Provides training in advanced business accounting procedures in QuickBooks. Course briefly discusses all four versions of QuickBooks: pro, online, premier and Enterprise will be discussed. Course will then emphasis either QuickBooks online or QuickBooks desktop. Focus is on small business. Includes inventory setup, employee and payroll setup, sales tax setup, estimates, time tracking, pass through expenses, and adjustment and year-end procedures.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMA 288 DATABASE REPORTING
3.5 Units 3 hours lecture 1.5 hours lab
Provides students with the knowledge and skills to turn raw data into business intelligence through use of tools such as Microsoft Power BI and Tableau. Students will create data visualizations, dashboards and reports that can be analyzed and shared. Students will create basic data models by connecting to various data sources.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMA 400NC OFFICE SKILLS - OFFICE PROCEDURES
0 Unit 2 hours lecture 3 hours lab
Recommended Preparation: CIMA 401NC
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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 401NC OFFICE SKILLS - MICROSOFT WINDOWS
0 Unit 2 hours lecture 3 hours lab
Recommended Preparation: CIMA 422NC
Entry-level course to provide beginning information and training in the use of email software and online workspace collaborations tools. Covers sending and receiving e-mail messages, managing contacts, and business email etiquette. Provides instruction in using Calendar for scheduling appointments, planning meetings, recording meetings, scheduling events, and tasks feature. Course also introduces office 365 Teams, which is a workspace collaboration software tool providing chat-based discussion boards for exchanging texts and graphics.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 402NC WORD PROCESSING - MICROSOFT WORD
0 Unit 2 hours lecture 3 hours lab
Recommended Preparation: CIMA 401NC and CIMA 422NC
Provides information and training in the use of computer-based spreadsheet software for business applications. Workbooks will be produced for a variety of applications. Using Microsoft Excel students will learn how to create workbooks, implement formulas/equations, format tables, perform lookup, create charts, and access databases.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 403NC OFFICE SKILLS - OUTLOOK AND TEAMS
0 Unit 2 hours lecture 3 hours lab
Recommended Preparation: CIMA 401NC and CIMA 422NC
Entry-level course provides beginning information and training in the use of database software and cloud applications file sharing. The desktop application Microsoft Access will be used to demonstrate database queries, tables, and forms. Course also includes introduction to modern-day cloud-based application SharePoint. SharePoint is a browser-based business and file sharing collaboration and document management platform. Class will include creating a mobile Microsoft Power App that uses a SharePoint sharable lists generated from local a Microsoft Access databases.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 404NC SPREADSHEETS – MICROSOFT EXCEL
0 Unit 2 hours lecture 3 hours lab
Recommended Preparation: CIMA 401NC and CIMA 422NC
Surveys the concepts, structures, and processes utilized in developing and managing professional business presentations

using commercially available software packages such as Microsoft PowerPoint. Students will create a variety of presentation formats.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 405NC MICROSOFT OFFICE 365 APPLICATIONS - ACCESS AND SHAREPOINT
0 Unit 2 hours lecture 3 hours lab
This is a beginning level keyboarding course designed to build effective keyboarding skills with an emphasis on building correct touch-typing techniques for alphanumeric, symbol, and punctuation keys. For business and/or personal use. Introduces basic computer operation; no previous computer or typewriting experience required. Course provides training to be able to type 15 words per minute.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 408NC BUSINESS PRESENTATIONS – MICROSOFT POWERPOINT
0 Unit 2 hours lecture 3 hours lab
Prerequisite: CIMA 421NC
This is an intermediate level course that builds on a basic keyboarding foundation with correct touch-typing techniques, including alphabetic, numeric, and symbol keyboarding as well as 10-Key numeric keypad. Skill-building includes introductory formatting of documents using Microsoft Word. Builds keyboarding speed and accuracy. Introduces word processing command keys and formats to produce basic tables, business letters, memos, and reports. Course provides training to be able to type 30 words per minute.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 421NC KEYBOARDING FOR COMPUTERS - BEGINNING
0 Unit 0.5 hour lecture 3 hours lab
Qualifies the student to take the Cisco CCNA exam. This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Provides a firm foundation of Cisco's IOS, routing and protocols, layered communications, and WAN strategies.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

CIMA 422NC KEYBOARDING FOR COMPUTERS - INTERMEDIATE
0 Unit 0.5 hour lecture 3 hours lab
Prerequisite: CIS 480NC
Qualifies the student to take first CCNA exam in the CCNA 7.0 network academy. This course covers: advances in modern network technologies, implementing initial settings including passwords, IP addressing, and default gateway parameters on a

network switch and end devices. Course explains how network protocols enable devices to access local and remote network resources, and how physical layer protocols, services, and network media support communications across data networks. Course also covers calculating numbers between decimal and binary.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

Computer Info Management Networking and Operating Systems

CIMN 100 COMPUTER OPERATING SYSTEMS-WINDOWS
3 units 2 hours lecture 3 hours lab
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 110 NETWORKING ESSENTIALS AND TECHNOLOGIES FOR IT CYBERSECURITY
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Presents LAN and WAN technologies and also covers network operations, design concepts, and protocols. This course also provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level Information Communication Technology (ICT) professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, cybersecurity, networking and the responsibilities of an ICT professional will be introduced. Preparation for the CompTIA A+ certification exams (formerly CIMN 210).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 120 INTRODUCTION TO NETWORKING:COMPTIA NETWORK+
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Includes preparation for the CompTIA Network+ certification exam. This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of

protocols and services at the application, network, data link, and physical layers (formerly CIMN 200).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 130 COMPUTER OPERATING SYSTEMS - UNIX AND LINUX
3 Units 2 hours lecture 3 hours lab
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 140 FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: CIMN 230
Course includes test preparation for COMPTIA Linux+ and Server+ certifications. Specifically course provides a student with the knowledge and skills required to build, maintain, troubleshoot and support server hardware and software technologies. The student will be able to identify environmental issues; understand and comply with disaster recovery and physical / software security procedures; become familiar with industry terminology and concepts; understand server roles / specializations and interaction within the overall computing environment. Topics include installing UNIX/Linux; configuring X windows and system hardware; file system creation, backup and maintenance; boot process; administering user and group accounts; network and printing integration. (formerly CIMN 240)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 160 CISCO CCNA: ROUTING AND SWITCHING ESSENTIALS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Qualifies the student to take the Cisco CCNA exam. This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Provides a firm foundation of Cisco's IOS, routing and protocols, layered communications, and WAN strategies. (Formerly CIMN 260).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 220A MCSE CERTIFICATION EXAM PREP I
3 Units 2 hours lecture 3 hours lab
Prepares students for Microsoft Certified Solutions Expert (MCSE) initial Windows Server exam. Specifically course covers installing and configuring both the latest and most popular version of Windows Server Operating System through simulations, practice tests, and feedback (formerly CIM 292A).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 220B MCSE CERTIFICATION EXAM PREP II
3 Units 2 hours lecture 3 hours lab
Prepares students for Microsoft Certified Solutions Expert (MCSE) Windows Server exam II, presently either MCSE 70-741 and/or 70-411. Specifically course covers intermediate concepts in configuring and administering latest and/or most popular Windows Server operating system through simulations, practice tests, and feedback.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMN 220C MCSE CERTIFICATION EXAM PREP III
3 Units 2 hours lecture 3 hours lab
Prepares students for Microsoft Certified Solutions Expert (MCSE) advance Windows Server exams, presently either MCSE 70-742/743 and/or 70-412. Specifically course covers advance service concepts using the latest and/or most popular Windows Server operating system through through simulations, practice tests, and feedback (formerly CIM 292C).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Computer Info Management Program

CIMP 3 INTRODUCTION TO VIDEO GAME DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Specifically the course covers: languages both scripting and programming, AI concepts, level design, storytelling, careers, relationship to technology (especially CPU/GPU/SOC), video game history, development cycles, DirectX, OpenGL, game engines like unity and unreal. Course also covers delivery systems, case studies, level design, interdisciplinary nature of video game design, ethical, social and economic impact, effects of video game on violent behavior, and critical analysis of game reviews separating objective reporting from a subjective bias. Class uses strategy video games to demonstrate concepts and theory. Also includes Virtual reality, mobile gaming, immersion, virtual, augmented reality glasses and the future of computers/video games. (formerly, CIMP 230)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMP 7A BUSINESS PROGRAMMING - JAVA-- BEGINNING
3 Units 2 hours lecture 3 hours lab
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, Integrated Developers Environments (IDE) and the Java API.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMP 7B BUSINESS PROGRAMMING - JAVA-- ADVANCED
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CIMP 7A
An in-depth study of advanced Java programming concepts. Provides skill in advanced programming, arrays, sorting, sockets, exception handling, file handling, networking, dynamic data structures, HTML, threads, multithreading, Swing or Abstract Windowing Toolkit (AWT), container classes, GUI text input/output (I/O), events, listeners, graphics, Applications Programmer Interface (API), utility package, Object-Oriented Programming (OOP), inheritance, information handling and recursion.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMP 8A PROGRAMMING WITH PYTHON
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
Introductory programming course teaching standard algorithmic programming concepts using the Python programming language. Class covers syntax, variables, strings, conditions, flow control structures loops, switches, classes, database connections, utilities, short-circuit evaluations and frameworks. Class also covers data structures using sets, frozen sets, lists, arrays and dictionaries. No prior coding experience necessary. Class includes many python programming assignments and one large programming project. (formerly CIMP 110).
Grading Method: GR - Letter Grade or Pass/No Pass
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 and .NET core. 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 data typing, method construction and use, and other programming concepts.
Grading Method: GR - Letter Grade or Pass/No Pass
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 or other leading Android IDE along with the the latest Android SDK. In addition course covers both Java JDK and other popular JVM languages like Kotlin. Both JVM and DVM (Dalvik Virtual Machine) are discussed. From app development perspective class covers: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMP 235 IPHONE & IPAD PROGRAMMING BEGINNING
3.5 Units 3 hours lecture 1.5 hours lab
For students new to programming or desiring more experience in app development this course uses Apple's Xcode program to create projects that run on iPhones, iPads and related devices. No hardware or software is required. Programming is done with Swift which provides a user-friendly introduction to object-oriented coding which is applicable to all modern languages. Students will design (story board), code and test complete applications that include various features of the iOS (Apple) development environment.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Computer Info Management Security

CIMS 130 INTRO TO INFORMATION SYSTEMS SECURITY: COMPTIA SECURITY+
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Provides a comprehensive overview of network security, information technology security and risk management at the organization level 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, basic and advance cryptography, and operational and organizational security. It addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational Cybersecurity and Risk Management. Preparation for the CompTIA Security+ certificate. (Formerly CIMS 230).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMS 140 INTRODUCTION TO COMPUTER FORENSICS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Students learn skills to launch and properly complete a successful computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered include an overview of computer forensics as a profession; the computer investigation process; understanding operating systems boot processes and disk structures; data acquisition and analysis; technical writing; setting up a forensics lab; and a review of familiar computer forensics tools. Features free downloads of the latest forensic software, so students can become familiar with the tools of the trade.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMS 150 INTRODUCTION TO CYBERSECURITY: ETHICAL HACKING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prepares students for passing the EC-Council's Certified Ethical Hacker (CEH), a DOD cybersecurity certificate. This course introduces the network security specialist to the various methodologies for attacking a network. Students will be introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network within the context of properly securing a network. The course emphasizes network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students experience a hands-on practical approach to penetration testing measures and ethical hacking. (Formerly CIMS 250).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMS 155 CYBERSECURITY ANALYSIS – COMPTIA CYSA+
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: CIMN 120 and CIMS 130
This course provides preparation for the DOD recommended intermediate level CompTIA CySa+ certification exam. In this course students will learn how to configure and use threat detection tools, perform data analysis, and interpret the results to identify vulnerabilities, threats, and risks to an organization with the end goal of securing and protecting applications and systems within an organization. The course covers skills used by IT security analysts, vulnerability analysts, or threat intelligence

analysts with a technical, "hands-on" focus on IT security analytics.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMS 165 CYBERSECURITY OPERATIONS- CISCO CCNA CYBER OPS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: CIMS 130 and CIMN 120
This course equips students with the knowledge and skills needed by today's organizations that are challenged with rapidly detecting cybersecurity breaches and effectively responding to security incidents. The student would be part of a team of people in Security Operations Centers (SOC's) keeping a vigilant eye on security systems, protecting their organizations by detecting and responding to cybersecurity threats. CCNA Cyber Ops prepares candidates to begin a career working with associate-level cybersecurity analysts within security operations centers.. Includes preparation for Cisco's CCNA CyberOps exam.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMS 200 INFORMATION SECURITY FUNDAMENTALS
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: CIMN 230, CIMN 100, CIMN 100A/B, & CIMN 200
Provides fundamental knowledge for managing all aspects of an enterprise-wide security life cycle and cybersecurity rolls 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).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Computer Info Management Webmaster and Web Design

CIMW 100A WEB SITE DEVELOPMENT - HTML-BEGINNING
1.5 Units 1 hour lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: CIMN 100
Utilize Hypertext Markup Language (HTML) code to construct basic web pages and web sites. Topics include text formatting commands, links, and email. Identify and use recommended Web site design practices. Use visual elements, graphics, hyperlinks, lists, tables columns, page layout and validating web pages in web sites. Identify and apply steps to publish web pages to a server using File Transfer Protocol (FTP) software.
Grading Method: GR - Letter Grade or Pass/No Pass
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 of

HTML 5.0 for creating web pages that enable improved web delivery of information. Topics include tables, forms and semantic tags. Discussions on server-side processing, job roles required for a successful web project development, web hosting and introduction to basic JavaScript. Includes, use and function of multimedia, and video. Students will construct web sites that use multimedia features such as sounds, and video.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 105 WEB DEVELOPMENT AND DB - INTRO SQL AND MYSQL
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Introduction to databases, web server-side databases and the Structured Query Language (SQL). Course uses MySQL or MariaDB 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. Course also discusses cloud database services of SQL, NoSQL, big data and caching.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 115 INTRO CREATING WEB PAGES DREAMWEAVER AND WORD PRESS
3 Units 2 hours lecture 3 hours lab
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 134 WEB DIGITAL MEDIA- PHOTOSHOP AND INTRO TO VIDEO EDITING
3 Units 2 hours lecture 3 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 140 CSS (CASCADING STYLE SHEETS) & RWD (RESPONSIVE WEB DESIGN)
3 Units 2 hours lecture 3 hours lab
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 CIMW 240).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 145 WEB DEVELOPMENT - PHP, CMS AND WORDPRESS AND E-COMMERCE
3 Units 2 hours lecture 3 hours lab
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 CIMW 245).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 160 WEB DEVELOPMENT - JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX
3 Units 2 hours lecture 3 hours lab
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 CIMW 260).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 207 SOCIAL MEDIA & WEB FUNDAMENTALS
1.5 Units 1 hour lecture 1.5 hours 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 241 INTRODUCTION TO CONTENT MANAGEMENT SYSTEMS (CMS)-WORDPRESS
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: CIMW 115
An introduction to using WordPress as a Content Management System (CMS) as social networking blogging platform and as a content management system for websites. Students will learn to install, configure, and build and publish blogs and develop small web sites. Topics covered will include hosting options, content creation and management, installing WordPress themes and widgets, using feeds, podcasting, social media integration, using posts and pages, formatting posts and pages, scheduling, categorizing and tagging posts, adding images, using themes and templates, adding plugins, managing comments, creating users and utilizing WordPress settings along with advanced formatting features including maintenance and security.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 250 MICROSOFT ASP.NET--BEGINNING
3.5 Units 3 hours lecture 1.5 hours lab
Using open source ASP.Net, C# and HTML to develop dynamic web apps that run on web servers deployed to the cloud. Course technologies include review of C# language, object-oriented programming, creating interactive web sites, building server to server web services, exchanging (JSON) data and interactivity with local and cloud databases.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CIMW 280 WEB DESIGN - CAPSTONE PORTFOLIO PROJECT
1.5 Units 1 hour lecture 2 hours lab
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 CSS sites, Adobe Creative Suite, Adobe Dreamweaver, Responsive Web Design (RWD), RWD Frameworks such as Bootstrap, Search Engine Optimization (SEO), image viewers, sliders, 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Computer Maintenance Technology

CMT 215 ELECTRONICS FOR COMPUTER TECHNOLOGISTS
3 Units 3 hours lecture
Basics of electronics for computer technologists, including terminology, components, circuits, signals, test equipment, and troubleshooting. Includes both DC and AC fundamentals, plus discrete components and integrated circuits related to computer technology and associated hardware. The emphasis is on concepts without extensive numerical analysis and calculations.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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, communication devices, display technologies and video adapters, wired and wireless networks, virtualization, mobile devices, Windows maintenance and optimization, Windows troubleshooting, and computer security. Lab exercises give hands-on experience of the topics being studied.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CMT 230 APPLIED NETWORK TECHNOLOGY
3 Units 2.5 hours lecture 1.5 hours lab
Recommended Preparation: CMT 220
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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++.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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++.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CS 1D DATA STRUCTURES
3.5 Units 3 hours lecture 2 hours lab
Transfers: CSU, UC
Prerequisite: CS 1B
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CS 30A COMPUTER DISCRETE MATHEMATICS I
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 2 and CS 1A
This course is designed primarily for computer science majors. Areas of study include logic, proofs, basic structures, algorithms, integers, matrices, induction, recursion, counting principles, discrete probability, inclusion-exclusion, and graphs and trees. This course is also listed as MATH 30A; credit will be given in either area, not both. C-ID: COMP 152
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CS 30B COMPUTER DISCRETE MATHEMATICS II
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: CS 30A or Math 30A
This course is designed primarily for computer science majors. Major topics include propositional logic, proofs, recursion, combinatorics, probability, number theory, relations, graphs, trees, Boolean algebra, and modeling computation. This course is also listed as MATH 30B; credit will be given in either area, not both.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CS 260 CRYPTOGRAPHY IN CYBER OPERATIONS
3.5 Units 3 hours lecture 2 hours lab
Prerequisite: CIMS 165, CIMS 155, CIMS 130, and CS 1D
This capstone course is designed to provide students with an understanding of the functionality of a Cyber Operations Center (COC) and how to protect network assets through the use of Cryptography, Cryptology, and Cryptanalysis along with rigorous mathematical, computer programming, and Cyber-security skills. Topics include the role of a COC, Cryptography, Cryptology, and Cryptanalysis, block ciphers, data encryption, authentication, pseudo random number generators, zero-knowledge proofs, recognition of patterns or structures. Students will gain experience in offensive (Red Team) and defensive (Blue Team) COC operations via lab assignments and local/national cyber-security competitions.
Grading Method: GN - Letter Grade only
NR

Cooperative Work Experience

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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-I-3

CWE 180 CO-OP-ED CHILD DEVELOPMENT AND EDUCATION
1 Unit 4.52 hours learning center
Transfers: CSU
Recommended Preparation: For Early Childhood Placements CDE 7, 15, 101, and/or 110, or For School Age/K-12 Placements CDE 7 and 18, 41, or 90
Provides an opportunity for work experience in faculty approved child development and education settings. Student, instructor and employer will collaboratively develop a minimum of three learning objectives which will be evaluated throughout the course. Documentation of current immunizations may be required. The units cannot be used to meet the "supervised field experience" required for the Child Development Permit. 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.
Grading Method: Grading Method: GR - Letter Grade or Pass/No Pass
R-I-3

CWE 180 CO-OP-ED CHILD DEVELOPMENT AND EDUCATION
2 Units 9.04 hours learning center
Transfers: CSU
Recommended Preparation: For Early Childhood Placements CDE 7, 15, 101, and/or 110, or For School Age/K-12 Placements CDE 7 and 18, 41, or 90
Provides an opportunity for work experience in faculty approved child development and education settings. Student, instructor and employer will collaboratively develop a minimum of three learning objectives which will be evaluated throughout the course. Documentation of current immunizations may be required. The units cannot be used to meet the ?supervised field experience? required for the Child Development Permit. 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.
Grading Method: Grading Method: GR - Letter Grade or Pass/No Pass
NR

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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-I-3

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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-I-4

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-I-1

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. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CWE 180 CO-OP-ED FASHION
1 Unit 4.52 hours learning center
Transfers: CSU
Corequisite: FASH 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 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.
Grading Method: GR - Letter Grade or Pass/No Pass

R-I-1

CWE 180 CO-OP-ED INTERIOR DESIGN
1 Unit 4.52 hours learning center

Transfers: CSU
Prerequisite: ID 129
Provides supervised hands-on experience as an Interior Design Assistant at an interior design-related work site. Students develop specific and individual design skills as a part of the Interior Design program. Typically taken in the final year of the program. Work site must be approved by instructor prior to enrollment. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CWE 180 CO-OP-ED PHLEBOTOMIST
2 Units 9.04 hours learning center

Transfers: CSU
Corequisite: PHLB 240
Limitation: Official acceptance into the MLT Program.
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-I-3

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-I-1

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

CWE 180 COOPERATIVE WORK EXPERIENCE - MENTAL HEALTH
2 Units 9.04 hours learning center
Transfers: CSU
Prerequisite: HS 100, HS 120, HS 131, HS 140, HS 174, HS 176, HS 177, HS 220, and HS 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.

Grading Method: GN - Letter Grade only

NR

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

NR

Cosmetology

COS 211 COSMETOLOGY FRESHMAN-LEVEL 1
0.5-12 Units 0-6 hours lecture 1.5-18.1 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 of four courses introducing the basic science and application of cosmetology. Lecture includes State Board Rules and Regulations, bacteriology, anatomy, physiology, health, safety, and hazardous substances. Students will understand and demonstrate disinfection, sanitation, and client protection. Students will learn skills using a mannequin hand and head to perform scalp treatments, haircut and styles, chemical straightening, tinting, bleaching, eyebrow arch, makeup application, facials, pedicures, and manicures. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.

Grading Method: GN - Letter Grade only

R-E-3 - Repeatable up to 3 times until student earns 12 units

COS 211A COSMETOLOGY FRESHMAN-LEVEL 1A
0.5-6 Units 0-3 hours lecture 1.5-9.05 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.

The first of eight consecutive courses introducing the basic science and application of cosmetology. Students will understand and demonstrate disinfection, sanitation, and client protection. Lecture will also include The California State Board Rules and Regulations, bacteriology, anatomy and physiology. Students will understand and be able to complete a basic scalp treatment, haircut and style, chemical straightening, tinting, and bleaching. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.

Grading Method: GN - Letter Grade only

R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 211B COSMETOLOGY FRESHMAN-LEVEL 1B
0.5-6 Units 0-3 hours lecture 1.5-9.05 hours lab

Prerequisite: COS 211A or completion of 200 hours

The second of eight consecutive courses introducing the basic science and application of cosmetology. Students will understand and demonstrate disinfection, sanitation, and client protection. Lecture will include The California State Board Rules and Regulations, health, safety, and hazardous substances as it relates to cosmetology. Students will understand and be able to complete a basic eyebrow arch, makeup application, facial, pedicure, manicure, and apply an acrylic nail. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.

Grading Method: GN - Letter Grade only

R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 212 COSMETOLOGY INTERMEDIATE-LEVEL 2
0.5-12 Units 0-6 hours lecture 1.5-18.1 hours lab

Prerequisite: COS 211 or COS 211A and COS 211B or completion of 400 hours

Second of four courses learning the science and application of cosmetology. Lecture includes continued instruction in the California State Board Rules and Regulations, hair and scalp analysis, hair cutting and styling, permanent waving, chemical cosmetics preparations, facial analysis, and electricity. Students will continue to demonstrate disinfection, sanitation, health, safety, client and technician protection. Students will perform scalp treatment, haircut, thermal style, permanent wave, chemical straightening, tinting, and bleaching hair, skin and nails analysis, electrical facial, hair removal, makeup application, manicure, pedicure, and acrylic nail on a client or mannequin. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.

Grading Method: GN - Letter Grade only

R-E-3 - Repeatable up to 3 times until student earns 12 units

COS 212A COSMETOLOGY INTERMEDIATE-LEVEL 2A
0.5-6 Units 0-3 hours lecture 1.5-9.05 hours lab
Prerequisite: COS 211 or COS 211B or completion of 400 hours
The third of eight consecutive courses learning the science and application of cosmetology. Students will understand and demonstrate disinfection, sanitation, client and technician protection. Lecture will include continued instruction in The California State Board Rules and Regulations, bacteria identification, hair and scalp analysis, thermal styling, permanent waving, and use of hair cutting tools. Students will understand and be able to complete scientific brushing, scalp treatment, haircut, thermal style, permanent wave, chemical straightening, tinting, and bleaching on a client or mannequin. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 212B COSMETOLOGY INTERMEDIATE-LEVEL 2B
0.5-6 Units 0-3 hours lecture 1.5-9.05 hours lab
Prerequisite: COS 212A or completion of 600 hours
The fourth of eight consecutive courses learning the science and application of cosmetology. Lecture will include continued instruction in The California State Board Rules and Regulations, chemical composition, purpose of cosmetics preparations, bacteriology, facial analysis, and electricity used in cosmetology. Students will continue to demonstrate disinfection, sanitation, health, safety, hazardous substances, and client and technician protection. Students will be able to analyze skin and nails, perform an electrical facial, hair removal, makeup application, manicure, pedicure, and acrylic nail on a client or mannequin. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 213 COSMETOLOGY ADVANCED-LEVEL 3
0.5-12 Units 0-6 hours lecture 1.5-18.1 hours lab
Prerequisite: COS 212 or COS 212A and COS 212B or completion of 800 hours
Third of four courses in advanced science and application of cosmetology. Lecture includes continued instruction, and demonstration in State Board Rules and Regulations, disinfection, sanitation, health, safety, hygiene, ergonomics, disease identification, biology, anatomy, customizing services, advanced analysis, texturized cutting, electrical facials and safety for elderly clients. Students will perform advance haircutting and styling, permanent wave and straightening, custom hair coloring, facial peels, wax hair removal, makeup, manicure, acrylic nails, and pedicures on a client or mannequin. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 12 units

COS 213A COSMETOLOGY ADVANCED-LEVEL 3A
0.5-6 Units 0-3 hours lecture 1.5-9.05 hours lab
Prerequisite: COS 212 or COS 212B or completion of 800 hours
Fifth of eight consecutive courses learning the science, and applied science of cosmetology. Lecture, demonstration, and lab will include customizing client services, advanced analysis, custom haircut and coloring, thermal hairstyling. Students will demonstrate ergonomics while performing electrical facials and peels, and operating electrical equipment. Continued instruction, and demonstration in State Board Rules and Regulations, disinfection, sanitation, health, safety, hygiene, ergonomics, disease identification, biology, anatomy, and chemical composition of products. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 213B COSMETOLOGY ADVANCED-LEVEL 3B
0.5-6 Units 0-3 hours lecture 1.5-9.05 hours lab
Prerequisite: COS 213A or completion of 1000 hours
Sixth of eight consecutive courses learning the applied science of cosmetology. Lecture, demonstration, and lab will include customizing client services, advanced application on haircuts, coloring, thermal hair styling. Students will demonstrate ergonomics while performing facials and packs, eyebrow waxing, corrective makeup, operating electrical equipment and safety precautions with pedicure on elderly people. Continued instruction, and demonstration in State Board Rules and Regulations, disinfection, sanitation, health, safety, hygiene, ergonomics, disease identification, biology, anatomy, and chemical composition of products. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 214 COSMETOLOGY SENIOR-LEVEL 4
0.5-12 Units 0-6 hours lecture 1.5-18.1 hours lab
Prerequisite: COS 213 or COS 213A and COS 213B or completion of 1,200 hours
Last of four, 400 hour courses, completing the mandated 1,600 hours of training. The main focus is student preparation for the cosmetology licensing examination, and pursuing a job as entry level cosmetologist. Lecture, demonstration, and lab will include written tests, and mock-up exams with mannequins, including color application, haircuts, hair styling, facials, eyebrow waxing, makeup, using electrical equipment, manicures, and pedicure. Continued instruction, and demonstration in State Board Rules and Regulations, disinfection, sanitation, health, safety, hygiene, ergonomics, disease identification, biology, anatomy, and chemical composition of products. Students will continue to work on the clinic floor doing client services.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 12 units

COS 214A COSMETOLOGY SENIOR-LEVEL 4A
0.5-6 Units 0-3 hours lecture 1.5-9.05 hours lab
Prerequisite: COS 213 or COS 213B or completion of 1,200 hours
Seventh of eight courses, focusing on student preparation for the Cosmetology licensing examination. Lecture, demonstration, and

lab will include written tests, and mock-up exams with mannequins, including color application, haircuts, thermal hair styling, facials, eyebrow waxing, makeup, operating electrical equipment and safety precautions with pedicure. Continued instruction, and demonstration in State Board Rules and Regulations, disinfection, sanitation, health, safety, hygiene, ergonomics, disease identification, biology, anatomy, and chemical composition of products. Students will continue to work on the clinic floor doing client services. The full 1,600 hour program is designed to prepare students for the cosmetology examination, and as an entry level cosmetologist.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 214B COSMETOLOGY SENIOR-LEVEL 4B
0.5-6 Units 0-3 hours lecture 1.5-9.05 hours lab
Prerequisite: COS 214A or completion of 1,400 hours
Final course of eight, 200 hour courses, completing the mandated 1,600 hours of training. The main focus is student preparation for the cosmetology licensing examination, and pursuing a job as entry level cosmetologist. Lecture, demonstration, and lab will include written tests, and mock-up exams with mannequins, including color application, haircuts, hair styling, facials, eyebrow waxing, makeup, using electrical equipment, manicures, and pedicure. Continued instruction, and demonstration in State Board Rules and Regulations, disinfection, sanitation, health, safety, hygiene, ergonomics, disease identification, biology, anatomy, and chemical composition of products. Students will continue to work on the clinic floor doing client services.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 6 units

COS 250A ESTHETICIAN LEVEL A
0.5-9 Units 0-4.5 hours lecture 1.5-13.58 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.
The first of two, 300-hour courses designed to prepare students for the State licensing examination and success as estheticians. Course includes classroom instruction and laboratory practice. At completion of 600 hours and passing the California State Board Examination, students will be prepared as entry-level Estheticians. Successful completion of the State Licensing Examination allows the graduate cosmetician to perform manual and electrical facials, microdermabrasion, eyebrow arching and hair removal (except by electrolysis), or become a make-up artist, skin care professional, or 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.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 9 units

COS 250B ESTHETICIAN LEVEL B
0.5-9 Units 0-4.5 hours lecture 1.5-13.58 hours lab
Prerequisite: COS 250A or 300 hours of training.
The second of two 300-hour courses designed to prepare students for the State licensing examination and success as Estheticians. Course includes classroom instruction and laboratory practice. At completion of 600 hours and passing the California State Board Examination, students are prepared as entry-level Estheticians and able to perform manual and electrical facials, microdermabrasion, eyebrow arching and hair removal (except by electrolysis), or become a make-up artist, skin care professional or 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.
Grading Method: GN - Letter Grade only
R-E-3 - Repeatable up to 3 times until student earns 9 units

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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COUN 40 COLLEGE AND CAREER SUCCESS
3 Units 3 hours lecture
Transfers: CSU, UC
Designed to foster college and career success. College and university policies and campus resources are examined. Theories and strategies of college success are evaluated including time management, study skills, student health and wellness, diversity and global awareness, communication and critical thinking. Students will analyze career related assessments, research careers and majors, and develop comprehensive academic plans. Recommended for first time college students or any students undecided on a major or goal. (formerly, COUN 140)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COUN 51 HUMAN RELATIONSHIPS
3 Units 3 hours lecture
Transfers: CSU, UC
Integrating psychological, sociological, and physiological perspectives, this course will explore the human experience and the human conditions that lead to self-awareness and effective interpersonal skills. 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 including

cultural pluralism. 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 healthy relationship skills within those contexts will be presented. (formerly, COUN 151)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COUN 60 CAREER EXPLORATION
3 Units 3 hours lecture
Transfers: CSU, UC

This course focuses on the process of career and vocational decision making for achieving wholeness over the life span. Applying psychological, sociological, and physiological concepts, students explore strategies to create a meaningful life purpose to live and work in an increasingly interconnected world, and establish connections between educational, career, and life decisions. Focuses on theories of succeeding in college and/or work place. Emphasis is placed on critical thinking, communication skills, self-awareness, health and wellness, technological, cultural diversity and global awareness. Strongly recommended for students who are undecided about their majors or who are in the process of changing careers. (formerly, COUN 160)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COUN 61 LEARNING AND STUDY TECHNIQUES
1.5 Units 1.5 hours lecture
Transfers: CSU, UC

Applies principles derived from cognitive/behavioral psychology to facilitate development of organizational and critical thinking skills. This course is designed to assist students in developing effective academic study skills and critical thinking strategies necessary to reach their educational and career goals. Includes strategies for information acquisition, retention, and retrieval. Practical applications focus on decision making, goal setting, motivational techniques, interpersonal communication techniques, time management, note taking, test-taking/test taking anxiety reduction, and didactic learning skills. Topics surveyed include educational learning theories; examination of beliefs, values, and needs related to learning and self efficacy. (formerly, COUN 161)
Grading Method: GR - Letter Grade or Pass/No Pass
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 with a special emphasis on enhancing critical thinking, self-awareness and interpersonal skills. Topics include understanding and utilizing college resources, communication and interdependence with faculty, support staff and fellow students. Students will complete a first semester educational plan. Intended to prepare students for subsequent counseling courses related to academic, career and personal success.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

COUN 150 HELPING SKILLS FOR INTERPERSONAL RELATIONSHIPS
3 Units 3 hours lecture
Transfers: CSU

Designed to aid the individual in acquiring counseling communication skills and self-awareness necessary to improve relationships and create positive change. The student will critically analyze theories of counseling/helping and will utilize empathy, honesty, and caring in relationships to affect positive change in others. Benefits those in the helping professions as well as any individual seeking to be more helpful in relationships with others.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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. Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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. Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
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. Students are limited to a combined total of four enrollments in DANC 9 & 19.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 51 INTRODUCTION TO BALLET
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 52 BALLET DANCING LEVEL I
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 53 INTERMEDIATE BALLET
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 54 INTRODUCTION TO MODERN DANCE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 55 MODERN DANCE LEVEL I
1 Unit 0.5 hour 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 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 56 INTERMEDIATE MODERN DANCE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 57 INTRODUCTION TO JAZZ DANCING
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Designed for students with no experience in dance, as well a 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 58 JAZZ DANCING LEVEL I
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 59 INTERMEDIATE JAZZ DANCING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 60 INTRODUCTION TO TAP DANCING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 61 TAP DANCING LEVEL I
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 62 INTERMEDIATE TAP DANCING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 63 EXERCISE FOR DANCERS
1 Unit 0.5 hour 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/TA 63, and KNES/DANC 65.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 66 INTRODUCTION TO LATIN DANCE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 67 POINTE BALLET
1 Unit 0.5 hour 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. Observation of out-of-class dance performance is required. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Observation of an out-of-class performance is required. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 68 INTRODUCTION TO SOCIAL DANCE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 69 INTERMEDIATE SOCIAL DANCE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 70 INTERMEDIATE LATIN DANCE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 71 ADVANCED BALLET
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

DANC 72 ADVANCED MODERN DANCE
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

DANC 73 ADVANCED JAZZ DANCE
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 75 ADVANCED TAP DANCE
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 77 DANCE ACTIVITIES - LATIN AEROBICS
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 78 HIP HOP
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Emphasizes various styles of hip hop dance such as street, house and freestyle forms. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 79 HIP HOP LEVEL I
1 Unit 0.5 hour 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, house and freestyle forms. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 80 INTERMEDIATE HIP HOP
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 81 ADVANCED HIP HOP
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 80
Students will increase knowledge and technique in hip hop forms such as street, house and freestyle 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 82 AFRICAN DANCE I
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
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 (formerly DANC 182). Students are limited to a combined total of four enrollments in DANC 82 and 83.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 83 AFRICAN DANCE II
1 Unit 0.5 hour 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 82 and 83.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

DANC 184 MIDDLE EASTERN DANCE
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Provides an introductory level understanding of stage and social dances from the Middle East. Course work includes styling, veil work, cymbal playing, improvisation, fusion forms, Dabke, vocabulary and cultural background of the dances. An emphasis will be placed on traditional and contemporary forms of Middle Eastern Dance.
Grading Method: Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Economics

ECON 2 PRINCIPLES (MACRO)
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.
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ECON 2H HONORS PRINCIPLES OF MACROECONOMICS
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.
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. Letter grade only.
Grading Method: GN - Letter Grade only
NR

ECON 4 PRINCIPLES (MICRO)
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.
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ECON 4H HONORS PRINCIPLES OF MICROECONOMICS
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.
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
Grading Method: GN - 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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, Analog-to-Digital (A/D) and Digital-to-Analog (D/A) converters, shift registers, counters, clock and timing circuits, and multiplexers/demultiplexers. Laboratory experiments emphasize testing and troubleshooting of common circuits.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ET 133 DC AND AC FUNDAMENTALS
4 Units 3 hours lecture 3 hours lab
Transfers: CSU
Fundamentals of Direct Current (DC) and Alternating Current (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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Emergency Medical Technology

EMT 207 EMERGENCY MEDICAL TECHNICIAN PROCEDURES
11 Units 10 hours lecture 3 hours lab
Corequisite: EMT 207C
Limitation: American Heart Association Basic Life Support (BLS) Healthcare Provider certification, physical/health exam, and criminal background check required.
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.
Grading Method: GN - Letter Grade only
NR

EMT 207C EMERGENCY MEDICAL TECHNICIAN CLINICAL OBSERVATION
1 Unit 3 hours lab
Corequisite: EMT 207
Limitation: American Heart Association Basic Life Support (BLS) Healthcare Provider certification, physical/health exam, and criminal background check required.
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.
Grading Method: GN - Letter Grade only
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 36 hours of the 72 hours required by NREMT for renewal, including topics required and skills evaluated.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
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. C-ID: ENGL 105
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 6 INTRODUCTION TO CREATIVE NONFICTION
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A or ENG 1AH with a grade "C" or better
Recommended Preparation: ENG 3
Provides instruction in the craft of creative nonfiction. Designed for both the beginner and experienced writer, the course emphasizes short-form nonfiction narratives, such as the personal essay, the memoir, the profile, and the feature story. Students will explore the craft of nonfiction through the study of diverse works by published writers and through peer review of student writing in a workshop setting. Instruction will include the application of literary techniques to the nonfiction form as students write a series of narratives, culminating in the production of a piece suitable for submission to a publication.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 9 INTRODUCTION TO WRITING POETRY
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: ENG 1A or ENG 1AH with a grade "C" or better
Recommended Preparation: ENG 3
Workshop-based course in the craft of poetry writing for both the beginning and experienced student. Instruction will focus on the elements and skills of writing poetry, including consideration of

various poetic techniques, forms, and traditions. Students read, discuss, and critique the poems they have written in response to weekly assignments, which emphasize effective strategies and techniques for writing poetry with the aim toward publication.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 10 STRATEGIC READING IN A GLOBAL SOCIETY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
Introduces the history of the major changes in human discourse that have led up to our current information age, and practices the current strategies needed to critically read, analyze and process the various forms of discourse that exemplify the changing world of information. Students read and summarize informational texts, fiction and non-fiction works, write research papers, and assess student projects.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 22 INTRODUCTION TO SHAKESPEARE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A or ENG 1AH
A study of representative works from Shakespeare, including comedies, tragedies, and histories. Credit may be earned for ENG 22 or ENG 22H, but not both.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 22H HONORS INTRODUCTION TO SHAKESPEARE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A or ENG 1AH
A study of representative works from Shakespeare, including comedies, tragedies, and histories. Credit may be earned for ENG 22 or ENG 22H, but not both.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 25 INTRODUCTION TO LITERATURE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A OR ENG 1AH
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. Credit may be earned for ENG 25 or ENG 25H, but not both.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 25H HONORS INTRODUCTION TO LITERATURE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A or ENG 1AH
Examines the basic nature of imaginative literature 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 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. Credit may be earned for ENG 25 or 25H, but not both.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Credit may be earned for ENG 27A or 27AH, but not both.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
NR

ENG 44 CLASSICAL MYTHOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 52 THE FILM AS LITERATURE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 70 CRITICAL THINKING, READING, AND WRITING
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A or ENG 1AH with a grade of "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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 104 WRITING SHORT STORIES
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH; ENG 3
Writing the short story with an emphasis on contemporary publishing standards and an examination of the theories behind this process.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 160 LITERARY MAGAZINE
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Recommended Preparation: ENG 1A, ENG 1AH, or ENG 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 380NC, ESL 180, 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 380NC, ESL 180, or comparable course with a grade of "C" or better
Corequisite: ENG 1A
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENG 267 NOVEL WORKSHOP - REVISING MANUSCRIPTS FOR PUBLICATION
3 Units 3 hours lecture
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: NC - Noncredit
R-E-1

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.
Grading Method: NC - Noncredit
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.
Grading Method: NC - Noncredit
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.
Grading Method: PN - Pass/No Pass
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.

Grading Method: PN - Pass/No Pass

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.

Grading Method: PN - Pass/No Pass

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.

Grading Method: PN - Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: NC - Noncredit

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.

Grading Method: PN - Pass/No Pass

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.

Grading Method: NC - Noncredit

R-E-1

ENG 343NC 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.

Grading Method: NC - Noncredit

R-E-99

ENG 345 BUILDING BASIC READING SKILLS
3 Units 3 hours lecture

Corequisite: ENG 346

Recommended for students who recognize 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 students' 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: NC - Noncredit
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: NC - Noncredit
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

English as a Second Language

ESL 80 ADVANCED ACADEMIC WRITING I
6 Units 6 hours lecture
Transfers: CSU, UC
Prerequisite: Placement by the current assessment process or successful completion of ESL 340 or comparable course with a grade of "C" or better or "P" if taken for no credit
The first in the series of advanced academic writing courses designed for non-native speakers to develop greater proficiency in reading comprehension and written communication necessary for college-level work. Students summarize articles from a variety of academic disciplines and discuss current issues especially in American, western, and other cultures and relate those issues to their own culture and experiences. Students develop fluency and confidence by writing and rewriting thesis-based essays. (formerly ESL 350)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 90 ADVANCED ACADEMIC WRITING II
6 Units 6 hours lecture
Transfers: CSU, UC
Prerequisite: Placement by the current assessment process or successful completion of ESL 180 with a grade of "C" or better or completion of ESL 380NC with a grade of "P"
This course is designed for non-native English learners advancing their proficiency in academic reading and writing. Students critically analyze a range of college-level texts and literary sources that provide varying perspectives on language and culture and how these perspectives shape one's perception of the world. Students research and synthesize these ideas into well-developed, objective and subjective written responses using a variety of rhetorical strategies and devices. Research strategies, academic vocabulary, appropriate language conventions, and integration of sources are also covered. Successful completion prepares students to enroll in ENG 1A or 1AH.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 320NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

ESL 321 BEGINNING MULTISKILLS II
6 Units 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. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 321NC 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. 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 322NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 323NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 325NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 330NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 331NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 332NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 333NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

ESL 335 INTERMEDIATE WRITING I
3 Units 3 hours lecture
Recommended Preparation: ESL 321 or ESL 325
Designed for the non-native speaker of English focusing on intermediate-level writing skills. Emphasis is on gaining control of 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 335NC INTERMEDIATE WRITING I
0 Unit 3 hours lecture
Recommended Preparation: ESL 321 or ESL 325
Designed for the non-native speaker of English focusing on intermediate-level writing skills. Emphasis is on gaining control of 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

ESL 336 INTERMEDIATE WRITING II
3 Units 3 hours lecture
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 336NC INTERMEDIATE WRITING II
0 Unit 3 hours lecture
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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 340NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 342NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 343NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 344NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

ESL 345 ADVANCED WRITING I
3 Units 3 hours lecture
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 345NC ADVANCED WRITING I
0 Unit 3 hours lecture
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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 346NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 347NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 354NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 355NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 356NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 357NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 358NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ESL 359NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

ESL 380NC ADVANCED ACADEMIC WRITING I
0 Unit 6 hours lecture
Prerequisite: Placement by the current assessment process or successful completion of ESL 340 or comparable course with a grade of "C" or better or "P" if taken for no credit
The first in the series of advanced academic writing courses designed for non-native speakers to develop greater proficiency in reading comprehension and written communication necessary for college-level work. Students summarize articles from a variety of academic disciplines and discuss current issues especially in American, western, and other cultures and relate those issues to their own culture and experiences. Students develop fluency and confidence by writing and rewriting thesis-based essays. (formerly ESL 350NC)
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-4

ESL 390NC ADVANCED ACADEMIC WRITING II
0 Unit 6 hours lecture
Prerequisite: Placement by the current assessment process or successful completion of ESL 180 with a grade of "C" or better or successful completion of ESL 380NC or comparable course with a grade of "P".
This course is designed for non-native English learners advancing their proficiency in academic reading and writing. Students critically analyze a range of college-level texts and literary sources that provide varying perspectives on language and culture and how these perspectives shape one's perception of the world. Students research and synthesize these ideas into well-developed, objective and subjective written responses using a variety of rhetorical strategies and devices. Research strategies, academic vocabulary, appropriate language conventions, and integration of sources are also covered. Successful completion prepares students to enroll in ENG 1A or 1AH.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
NR

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.
Grading Method: PN - Pass/No Pass
NR

ESL 801NC 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.
Grading Method: NC - Noncredit
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.
Grading Method: PN - Pass/No Pass
NR

ESL 802NC 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.
Grading Method: NC - Noncredit
R-E-4

Entertainment and Theatre Technology

ETT 24 STAGE MANAGEMENT
3 Units 3 hours lecture
Transfers: CSU, UC
Students will gain practical experience in the application of production responsibilities and role of a theatre stage manager in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Includes studies in script breakdown, communication, blocking, rehearsal procedures and performance skills.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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. Practical experience through lab and crew positions.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
NR

ETT 142 THEATRE PRODUCTION
1 Unit 0.5 hour 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.
Grading Method: GN - Letter Grade only
R-E-1

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Requires participation as crew and construction member on a Department of Theatre Arts production.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENV 5 BIODIVERSITY CONSERVATION
3 Units 3 hours lecture
Transfers: CSU, UC
Covers the causes and consequences of one of the most prominent forms of change in the modern era: changes in biological diversity. Provides an overview of basic concepts of conservation biology, with a focus on the earth's biological diversity, threats to its biological diversity, how threats influence populations and species, extinction, ecosystem management, restoration, and environmental policies.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENV 38 WATER QUALITY AND MONITORING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
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 (formerly ENV 140).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ENV 141 WATER RESOURCES AND MANAGEMENT
4 Units 4 hours lecture
Transfers: CSU
Introduction to water resources with a concentration on the historical, geographical, legal, and economic aspects for the distribution, management, and allocation of water, stressing California and the arid West. Additional focus on environmental impact of water use, past and current water controversies, and water conservation. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Ethnic Studies

ES 1 INTRODUCTION TO ETHNIC STUDIES: MAKING CULTURE
3 Units 3 hours lecture
Transfers: CSU, UC
Explores the ways in which structures of power and inequality in the United States are imagined and reimagined through culture within Native American, African American, Latinx, Asian American, and Middle Eastern American communities.Cultural forms such as film, photography, music, digital media, literature, body modification, and art will be used to analyze how social hierarchies of race, ethnicity, gender, class, abilities, sexuality, and citizenship are created, altered, and contested.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ES 3 INTRODUCTION TO CHICANX AND LATINX CULTURES
3 Units 3 hours lecture
Transfers: CSU, UC
An introduction to Chicanx and Latinx 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. The following topics are covered: history of the consumer movement, consumer rights and responsibilities, consumer persuasion strategies, frauds and rip-offs, overview of basic insurance coverage, basic budget and credit management strategies, and consumer contracts and alternate dispute resolutions.
Grading Method: GR - Letter Grade or Pass/No Pass
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's 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Determine the facts and figures that are essential for a successful career in the global world of today's fashion business. Emphasis placed on current industry and careers and may include local field trips.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Ideal for students wishing to transfer.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. May include field trip related to current subject matter.
Grading Method: GR - Letter Grade or Pass/No Pass
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. May include field trip related to current subject matter.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 with CWE 180.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FASH 155 THE DIGITAL FASHION IMAGE
2 Units 1.5 hours lecture 1.5 hours lab
Transfers: CSU
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 (formerly FASH 260).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FASH 204 UNDERSTANDING APPAREL PRINCIPLES-AIMS CERTIFICATION
1 Unit 1 hour lecture 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FASH 207 ECO-FRIENDLY FASHION TOUR
1 Unit 0.5 hour lecture 1.5 hours lab
Learn how professionals in the fashion industry are minimizing their businesses impact on the earth and "going green." Students will visit designers, retailers, textile manufactures and "eco-preneurs" to learn how they have become fashion crusaders with light footprints. Includes site visits and on-site lectures and presentations.
Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GN - Letter Grade only

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.

Grading Method: PN - 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.

Grading Method: PN - 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 pass/no pass.

Grading Method: PN - Pass/No Pass

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 pass/no pass.

Grading Method: PN - Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: PN - 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.

Grading Method: PN - 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Class will attend industry site visits.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Natural dyes, mordants and eco dyeing will also be explored. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FASH 247 SPECIAL EVENTS PARTICIPATION
1 Unit 1 hour lecture 0.5 hour 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. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FASH 254 FASHION IN SOUTHERN CALIFORNIA
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required to complete course objectives.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 101 CULINARY PRINCIPLES I
3 Units 2 hours lecture 3 hours lab

Transfers: CSU

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 and field trip excursions (formerly FN 240). C-ID: HOSP 160
Grading Method: GR - Letter Grade or Pass/No Pass
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 or ENG 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips are a required part of the course.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 140 WORLD CUISINES
2 Units 1 hour lecture 3 hours lab

Transfers: CSU

Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Prepare, taste, serve and evaluate traditional, regional dishes from around the globe. This course focuses on cuisine and culture from around the world emphasizing 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 150 INTRODUCTION TO HOSPITALITY MANAGEMENT
3 Units 3 hours lecture

Transfers: CSU

Overview of structure and financial performances of hospitality industry; food and lodging, resorts, tourism enterprises, attractions and related operations. Focuses on orientation to

customer service, cultural/economic trends and career opportunities. C-ID: HOSP 100
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 152 SPECIAL EVENTS AND CATERING MANAGEMENT
3 Units 3 hours lecture
Transfers: CSU
Covers all aspects of the event planning and catering management business including operations, pricing, equipment, staff training, sustainable and green catering practices, menu and proposal design, 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 154 HOSPITALITY - PRODUCTION AND COST CONTROL
3 Units 3 hours lecture
Transfers: CSU
Analyzing and managing: Food, beverage, labor and other costs within a hospitality operation. Emphasis on problem solving, applying cost control techniques to maximize profits while managing expenses. Topics include: establishing standards, cost-volume-profit-analysis, forecasting, purchasing and storage controls, menu costing and pricing, theft prevention and labor control. C-ID: HOSP 120
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: HOSP 150
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 161 CLINICAL NUTRITION
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: FN 50
A comprehensive study of the nutrition therapy principles that influence and contribute to development of chronic diseases. Diets will be formulated for appropriate clinical conditions and disease states, such as diabetes, heart disease, cancer and obesity. Scientific concepts of therapeutic nutrition related to the function of nutrients in disease processes and current health issues with emphasis on the needs of the individual for wellness.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 165 CAREERS IN NUTRITION AND DIETETICS
1 Unit 1 hour lecture
Transfers: CSU
Explore the field of nutrition and dietetics including employment opportunities, internship options, networking tactics, resume building, and trends in the field that may impact future careers. Guest speakers and field trips to nutrition service sites in health care and community agencies are included. Student will identify specific career opportunities of interest in the field of nutrition and dietetics.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 prevention of food borne illnesses, through flow of food and HACCP management, as well

as safety and accident prevention on the job and optimum equipment selection, use, and maintenance. C-ID: HOSP 110
Grading Method: GR - Letter Grade or Pass/No Pass
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 101 and 244
Catering skills, business management, 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 176 FOOD AND BEVERAGE OPERATIONS
3 Units 3 hours lecture
Transfers: CSU

Techniques and procedures of management are explored and developed as they relate to commercial and institutional food and beverage facilities. Topics include: functions of management, marketing, menu development, effective cost controls in purchasing, labor and service techniques (formerly FN 275). C-ID: HOSP 130
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 206 SUSTAINABLE NUTRITION AND FOOD SYSTEMS
3 Units 3 hours lecture
A comprehensive study of the effects of food production and consumption on sustainability and our environment. Achieving a healthy and sustainable food future is an urgent matter that depends on global collaborative efforts. Sustainable diets are protective and respectful of biodiversity and ecosystems, culturally acceptable, accessible, economically fair and affordable; nutritionally adequate, safe and healthy; while optimizing natural and human resources. Learn how to plan and develop sustainable diets: food patterns with low environmental impact that contribute to food and nutrition security and to healthy life for present and future generations.
Grading Method: GR - Letter Grade or Pass/No Pass
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 national ServSafe exam upon the completion of this course.
Grading Method: GR - Letter Grade or Pass/No Pass
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 or for students taking courses for the Basic Culinary Skills Certificate of Completion.
Grading Method: NC - Noncredit
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. Emphasis is on developing professional skills and techniques applicable to the commercial food industry.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 Korea, Philippines, Japan, China, Thailand, India, Vietnam, and Indonesia are studied. Regional, ethnic, religious, and geographic influences on food patterns and customs will be examined. Emphasis is on developing professional skills and techniques applicable to the commercial food industry. Optional field trips take place in this class.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 Mediterranean countries, including Spain, France, Italy, Morocco, Egypt, Greece, and Turkey. Prepare, taste, serve and evaluate traditional regional dishes of the Mediterranean. Laboratory experiences will emphasize flavor profile and preparation techniques that represent each Mediterranean region. The course cultivates an understanding and appreciation of diverse world cultures and their approach to food. Included will be appetizers, soups, salads, main dishes, meats, sauces, dressings, and desserts appropriate to each region. Emphasis is on developing professional skills and techniques applicable to the commercial food industry.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Emphasis is on developing professional skills and techniques applicable to the commercial food industry.
Grading Method: GR - Letter Grade or Pass/No Pass
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 plant based foods. Practical experience in preparing a variety of plant based dishes. Includes an exploration of nutritional 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 235 EUROPEAN REGIONAL FOODS TOUR
2 Units 1 hour lecture 3 hours lab
A culinary lecture and lab tour of European regional cuisine. Hands on cooking experience, demonstration and tours of regional artisan factories that produce regional goods. Students will gain practical hands-on experience in the techniques, preparation and presentation of the region. Thematic emphasis and course content will vary depending on location. This class is off-campus and will require travel abroad, on specific dates.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Emphasis is on developing professional skills and techniques applicable to the commercial food industry.
Grading Method: GR - Letter Grade or Pass/No Pass
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 101
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 245 BAKING FUNDAMENTALS II
3 Units 2 hours 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 246 INTRODUCTION TO CULINARY ARTS
3 Units 2 hours lecture 3 hours lab
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Basic principles of culinary arts with focus on terminology, knife skills and professional techniques. Practical experience in techniques, preparation, presentation and service of cold sauces, salads, sandwiches and breakfast items including cheese selection will be explored. Purchasing, storage and quality control of pantry products are included.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
NR

FN 281 FLAVOR DYNAMICS
3 Units 3 hours lecture
Taste is the number one driving factor in the decision to purchase food. Flavor Dynamics uncovers the secrets of successful flavor combinations. Students will learn to understand their own sense of taste while increasing olfactory awareness. Topics include the five basic tastes - Salty, Sweet, Bitter, Sour and Umami - and how to use herbs, spices, oils, vinegar's and aromatic ingredients to create multi dimensional flavors.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 282 INTRODUCTION TO HERBS
2 Units 1 hour lecture 3 hours lab
Learn how to get more out of herbs by adding flavor and nutrition when preparing foods. Topics will guide students through a range of different herbs and spices, including leaves, flowers, roots, seeds and stems that are available today. Identification and uses are shown and practiced at each class. Hands on experience making infusions, oils, tea, decoctions will be taught. Methods to help understand what herbs to use in which circumstance are explored. Discusses the culinary, medicinal, nutritional, household, and cosmetic applications of a variety of different herbs.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 285 PERSONAL CHEF
3 Units 3 hours lecture
The professional personal chef is one of the fastest growing careers in food service. Personal chefs have the chance to work with food in a more creative, personalized way and also approach their careers with a more entrepreneurial business sense. Topics covered include starting and growing a successful professional personal chef business and the skills and competencies required as well as, providing a practical road map to get started.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 286 SUGAR CONFECTIONERY
1 Unit 0.5 hour lecture 1.5 hours lab
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Explore the chemistry of sugar at various stages of cooking. Make confectioneries such as pate de fruit, guimauve, caramels, nougats, sponge candy and other candies. Learn to use pastillage, pulled sugar, blown sugar, and poured sugar to create a variety of edible décor and showpieces.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 287 CHOCOLATE CONFECTIONERY
1 Unit 0.5 hour lecture 1.5 hours lab
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Study the history of chocolate, its cultivation, and present-day manufacturing. Topics include the fundamentals of chocolate science and tempering, and practice in producing a wide range of chocolate candies. Truffles, hand-dipped candies, molded bonbons, and chocolate décor will be covered.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

FN 288 ADVANCED BAKING AND PASTRY
3 Units 2 hours lecture 3 hours lab
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Advanced baking skills and methods. Emphasis on specialty and advanced baking skills, techniques, methods and presentation. Hands-on production of pastries, cakes and fillings, puff dough, creams and custards integrated with accompaniments from international cuisines.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass

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.
Grading Method: PN - Pass/No Pass
NR

Gender and Sexuality Studies

GSS 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. Students may receive credit for GSS 10 or GSS 10H, but not both (formerly WS 10).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GSS 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 GSS 10 or 10H, but not both (formerly WS 10H).
Grading Method: GN - Letter Grade only
NR

GSS 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 11H).
Grading Method: GN - Letter Grade only
NR

GSS 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 (formerly WS 15).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GSS 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 (formerly WS 31).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GSS 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 (formerly WS 120).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GIS 211 INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)
2 Units 1 hour lecture 3 hours lab
Prerequisite: GEOG 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Credit may be earned for GEOG 1 or 1H, but not both. C-ID: GEOG 110
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
NR

GEOG 1L PHYSICAL GEOGRAPHY LABORATORY
1 Unit 3 hours lab
Transfers: CSU, UC
Prerequisite: 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 C-ID: GEOG 111
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GEOG 102 GEOGRAPHY FIELD STUDIES
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: Students must be able to walk 1.0 to 6.0 miles each day on daily hikes over varied terrain.
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. Course includes up to 6 miles of hiking per day.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GEOG 106 FIELD STUDIES OF DESERT REGIONS
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: Students must be able to walk 1.0 to 6.0 miles each day on daily hikes over varied terrain.
Studies the physical and cultural geography of deserts. Thematic emphasis and course content will vary depending on location. Course includes up to 6 miles of hiking per day.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GEOG 107 FIELD STUDIES OF MOUNTAIN AREAS
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: Students must be able to walk 1.0 to 6.0 miles each day on daily hikes over varied terrain.
Studies physical and cultural geography in the field. Thematic emphasis and course content will vary depending on location. Course includes up to 6 miles of hiking per day.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GEOG 108 FIELD GEOGRAPHY
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Recommended Preparation: Students must be able to walk 1.0 to 6.0 miles each day on daily hikes over varied terrain.
Studies physical and cultural geography in the field. Thematic emphasis and course content will vary depending on location. Course includes up to 6 miles of hiking per day.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GEOG 109 FIELD STUDIES OF COASTAL REGIONS
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU
Recommended Preparation: Students must be able to walk 1.0 to 6.0 miles each day on daily hikes over varied terrain.
Studies the physical and cultural geography of coastal areas. Thematic emphasis and course content will vary depending on location. Course includes up to 6 miles of hiking per day. C-ID: GEOG 160
Grading Method: GR - Letter Grade or Pass/No Pass
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
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GEOG 211 INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)
2 Units 1 hour lecture 3 hours lab
Prerequisite: GEOG 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: GEOL 101
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 paleo climatologists 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GER 21 INTRODUCTION TO GERMAN CULTURE
3 Units 3 hours lecture
Transfers: CSU, UC
Introduces students of German to various aspects of German culture and civilization. Areas of study include history, music, literature, philosophy, political ideas, customs, and Germany's influence on and contribution to the civilization of America and the world. The course does not require previous study of the German language or culture.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
NR

Global Studies

GLST 1 INTRODUCTION TO GLOBAL STUDIES
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 1A or ENG 1AH
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.
Grading Method: GN - Letter Grade only
NR

GLST 2 GLOBAL ISSUES
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 1A OR ENG 1AH
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GC 208 SURFACE DESIGN I
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: GD 149
Covers the creative and technical aspects of surface design as it relates to creating repeat patterns and designs for products including textiles, home furnishings, wall coverings, floor coverings, decorative papers, greeting cards, and other surfaces. The course covers the process from initial research, design awareness, theme development and realization, to the various ways of printing and applying those designs to a variety of surfaces and materials. Creative, technical, and practical processes and procedures will be covered.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GC 215 INTRODUCTION TO VEHICLE WRAP DESIGN AND APPLICATION
1 Unit 0.5 hour lecture 2 hours lab
The fundamental principles of designing, printing, and applying large format vinyl film for vehicle wrapping. Includes design fundamentals, materials and equipment, printing procedures, and essential skills required to apply vehicle wraps.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GC 218 SURFACE DESIGN II
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: GC 208
Covers the technical aspects of surface design as it relates to printing repeat patterns and designs on a variety of substrates and surfaces for products including textiles, home furnishings, wall coverings, floor coverings, decorative papers, greeting cards, and other surfaces. Students will produce printed work using a variety of printing technologies, including screen printing, dye sublimation, vinyl printing, and direct to fabric printing.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GD 140 BEGINNING GRAPHIC DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required as part of class requirements.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GD 142 PACKAGE DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required as part of class requirements.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GD 147 INTRODUCTION TO COMPUTER GRAPHICS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Computer graphics course which covers many aspects of digital art and design. The student will use Adobe Creative Suite to create art and graphics with software such as Photoshop, Illustrator, and InDesign.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GD 150 DIGITAL ANIMATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: GD/ART 141, GD 147, 149
Essentials of 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. Includes production process from concept development to final animation.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GD 160 PROFESSIONAL PRACTICES FOR GRAPHIC DESIGNERS
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: GD 140 or ART 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GD 210 MOTION GRAPHICS
3 Units 2 hours lecture 3 hours lab
Essential principles and tools 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

GD 240 INTERMEDIATE GRAPHIC DESIGN
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: GD 140 or ART 140
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. A brief off-campus site visit is required to meet the objectives of this course. Letter grade only.
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
NR

HIT 116 PERFORMANCE IMPROVEMENT IN HEALTHCARE
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: MATH 10 or PSYC 44
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.
Grading Method: GN - Letter Grade only
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, CIMW 105, 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.
Grading Method: GN - Letter Grade only
NR

HIT 122 REIMBURSEMENT METHODOLOGIES
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: HIT 109, HIT 110, and 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).
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
NR

HIT 222 ADVANCED CODING APPLICATIONS
4 Units 2 hours lecture 6 hours lab
Prerequisite: HIT 109
Recommended Preparation: CIM 1 or CIM 10, HIT 100, HSC 106, HSC 108, HIT 110, HIT 115 & HIT 122
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 software 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.
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
NR

HSC 106 LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION
3 Units 3 hours lecture
Transfers: CSU

Recommended Preparation: ENG 1A or ENG 1 AH
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.
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
NR

HSC 151 INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION
3 Units 2 hours lecture 3 hours lab
Transfers: CSU

Designed to provide information and practical experience to students pursuing a career in physical therapy, occupational therapy, recreation therapy, adapted physical education, speech pathology or other health care fields that work with special populations. Also offered as KNEA 151. Credit given in either area, not both.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HSC 222NC 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 testing of Basic Life Support (BLS) for adults, children, and infants according to the American Heart Association (AHA) standards. This course is recommended for healthcare personnel who have never taken a BLS Course or have a card that is more than 2 years old. Those who demonstrate AHA required skills mastery and pass the AHA BLS written exam will receive an AHA BLS course completion card that is valid for 2 years.
Grading Method: NC - Noncredit
R-E-99

HSC 223NC BASIC LIFE SUPPORT-CPR FOR HEALTHCARE PROVIDERS RENEWAL
0 Unit 0.25 hour lecture
Limitation: Current American Heart Association BLS course completion card (AHA BLS Healthcare Provider card)
Provides review and update with practice, and return demonstration of CPR and foreign body airway obstruction relief maneuvers. Techniques for adults, children, and infants for one and two rescuers will be taught and tested according to the American Heart Association (AHA) BLS provider Manual. Early recognition, appropriate intervention and high quality CPR techniques will be emphasized. This course is recommended for healthcare personnel. Satisfactory completion of the course (skills demonstration and written exam) will provide an American Heart Association (AHA) Basic Life Support course completion card.
Grading Method: NC - Noncredit
R-E-99

HSC 226 ADVANCED CARDIAC LIFE SUPPORT
2 Units 2 hours lecture
Recommended Preparation: Current BLS Healthcare Provider HSC 217
Provides healthcare students 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HSC 227 PEDIATRIC ADVANCED LIFE SUPPORT
2 Units 2 hours lecture
Limitation: Current AHA BLS 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HSC 228 CALCULATIONS FOR MEDICATION ADMINISTRATION
1 Unit 1 hour lecture
Explores basic concepts for safely administering medications and solutions in clinical settings. Explores the use of dimensional analysis. Develops problem-solving techniques using equivalencies and unit conversions.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HSC 230 CERTIFIED PROFESSIONAL CODER(CPC) EXAM PREPARATION
3 Units 3 hours lecture
Prepares students for the Certified Professional Coder certification examination offered through the American Academy of Professional Coders (AAPC). Students will develop in-depth understanding of physician-based medical coding using critical thinking and review of case studies to: 1) abstract the pertinent information from document 2) select correct codes 3) and determine the correct sequencing of the codes. Letter grade only. (Formerly MA 200).
Grading Method: GN - Letter Grade only
NR

HSC 234 CERTIFIED CODING SPECIALIST (CCS) EXAM PREPARATION
3 Units 3 hours lecture
This course prepares students or professionals to sit for the American Health Information Management's (AHIMA's) highly regarded Certified Coding Specialist (CCS®) credential. In addition to interpreting the health record documentation, and applying coding guidelines, the students learn study tips, test-taking skills, and review of the coding content. This combination of in-depth study materials covering CPT, HCPCS Level II, ICD-10-CM and ICD-10-PCS content and comprehensive testing practice provides the added knowledge and test-taking skills to sit for the CCS certification exam. See AHIMA's current eligibility requirements for the CCS exam.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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. C-ID: HIST 180

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

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.

Grading Method: GR - Letter Grade or Pass/No Pass

NR

HIST 78 HISTORY OF JAPAN
3 Units 3 hours lecture
Transfers: CSU, UC
Survey of Japanese history from the earliest times to the present. Topics include anime/manga, the rise of the samurai, agriculture, warfare, sports, women's and men's roles in society, art, music and popular culture.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Honors

HON 11H HONORS CULTURE, SCIENCE, SOCIETY - RENAISSANCE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: 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.
Grading Method: GN - Letter Grade only
NR

HON 12H HONORS CULTURE, SCIENCE, SOCIETY - THE POSTMODERN WORLD
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: 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 postmodern world.
Grading Method: GN - Letter Grade only
NR

HON 13H HONORS CULTURE, SCIENCE, SOCIETY - POWER, RESISTANCE, EMPIRE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A or ENG 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.
Grading Method: GN - Letter Grade only
NR

HON 14H HONORS CULTURE, SCIENCE, SOCIETY - TRANSFORMATION OF EMPIRE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: 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.
Grading Method: GN - Letter Grade only
NR

HON 15H HONORS CULTURE, SCIENCE, SOCIETY- FROM PHILOSOPHY TO SCIENCE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: 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.
Grading Method: GN - Letter Grade only
NR

HON 16H HONORS CULTURE, SCIENCE, SOCIETY- NATURAL AND SOCIAL SCIENCE
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: 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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: AG-EH 116 L
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required to fulfill the objectives of this course.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips are required to meet course objectives.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HORT 144 LICENSURE 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HORT 145A LANDSCAPE DESIGN-NATIVE GARDEN
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HORT 145C LANDSCAPE DESIGN-WELLNESS GARDEN
2 Units 1 hour lecture 3 hours lab
Transfers: CSU

Explores methods of incorporating the principles of design into the creation of wellness gardens for well being. Wellness gardens are of proven benefit for vocational, social, and practical functions pursuing healthy body and mind. Students will create universal access designs for various health related beneficial purposes. Field trips may be recommended to fulfill the objectives of this course.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HORT 146 LANDSCAPE DESIGN PORTFOLIO DEVELOPMENT
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HORT 238 INTRODUCTION TO WELLNESS GARDENING
3 Units 2.5 hours lecture 1.5 hours lab

An overview of the history and purpose of Wellness Gardening. Explores the evolution of horticulture therapy from its start with medical illnesses, behavioral illnesses, and physical injury, to current day trends in holistic well-being. Emphasis is given to current trends for the implementation of wellness 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required to fulfill the objectives of this course.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Human Services

HS 37 INTRODUCTION TO CRIMINOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC

Theories of historical, social, cultural, genetic, psychological, economic, and political causative factors related to crime are covered. Emphasizes the origin of law, it's relationship to society, the organization and functions of law, and the role of law to prevent future criminal behaviors. Focus is placed on the most relevant crimes within our society.
Grading Method: GN - Letter Grade only
NR

HS 100 INTRODUCTION TO HUMAN SERVICES
3 Units 3 hours lecture
Transfers: CSU

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.
Grading Method: GN - Letter Grade only
NR

HS 101 ADDICTION STUDIES COUNSELING SKILLS
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: HS 100

This is a theoretical and experiential course that will introduce students to foundational and requisite addiction assessment, intervention, and treatment counseling skills. Students will be introduced to historical and etiological models of substance use disorders and process addictions. Self-exploration and professional issues in addiction counseling will be examined. Students will be introduced to various clinical documentation formats. Students will be introduced to various evidence based interventions. This course will introduce students to counseling skills needed to work with special populations as well as various treatment modalities. Off-campus visit required to fulfill course objectives.
Grading Method: GN - Letter Grade only
NR

HS 105 ETHICAL ISSUES AND CLIENTS' RIGHTS
3 Units 3 hours lecture
Transfers: CSU

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. Identifies confidentiality laws and ethical standards, including CFR 42 Part 2, related to Addiction Treatment(formerly HS 285).
Grading Method: GN - Letter Grade only
NR

HS 110 FIELD INSTRUCTION AND SEMINAR I
3.5 Units 1.5 hours lecture 6 hours lab
Transfers: CSU
Prerequisite: HS 100 and HS 120 and HS 140 and HS 170 and HS 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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - 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.

Grading Method: GN - 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.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
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 the etiology and treatment for eating disorder clients. Students will be introduced to the complexities and varieties of eating disorder treatment approaches.
Grading Method: GN - Letter Grade only
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, sociocultural 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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
NR

Humanities

HUM 1 INTRODUCTION TO HUMANITIES
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
Introduces students to the practices and subject matter of the central disciplines of the humanities including philosophy, literary theory, art history, and music theory. Students learn how to use a variety of forms of human expression to analyze and assess aspects of human nature and culture. The course focuses on questions about our knowledge, values, identities, and natures.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HUM 2 ORIGINS OF WESTERN CULTURE IN LITERATURE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 200
Investigates early Western thought and culture in Ancient Greece and Rome and ties them to our contemporary society. Science, religion, art, human relationships, what we can know: all are potential topics of discussion. Requires no background in classical culture and the readings are in English.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

HUM 3 THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Intercollegiate Athletics

IA 1 MEN'S FOOTBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation physical examination and be declared fit for athletics by a medical doctor (MD)
Recommended Preparation: Previously competed at the high school, community college, or 4-year college in interscholastic or intercollegiate football.
Student athletes will train and participate in Intercollegiate Football.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 2 MEN'S BASKETBALL
1.5 Units 5 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 2 MEN'S BASKETBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 3 MEN'S BASEBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 4 MEN'S TRACK AND FIELD
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 5 MEN'S CROSS COUNTRY
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 6 MEN'S GOLF
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 7 MEN'S WATER POLO
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 8 MEN'S SWIMMING AND DIVING
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 9 MEN'S TENNIS
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 10 WOMEN'S VOLLEYBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 11 WOMEN'S SOFTBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 12 WOMEN'S BASKETBALL
1.5 Units 5 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 12 WOMEN'S BASKETBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 13 WOMEN'S TENNIS
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 14 WOMEN'S SWIMMING AND DIVING
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 16 WOMEN'S TRACK AND FIELD
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 17 WOMEN'S CROSS COUNTRY
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 18 WOMEN'S WATER POLO
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 19 WOMEN'S GOLF
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 20 WOMEN'S SPORTS OFF SEASON TRAINING
0.5 Unit 2.5 hours lab
Transfers: CSU, UC
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.
Grading Method: GN - Letter Grade only
R-E-3

IA 20 WOMEN'S SPORTS OFF SEASON TRAINING
1.5 Units 5 hours lab
Transfers: CSU, UC
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.
Grading Method: GN - Letter Grade only
R-E-3

IA 20 WOMEN'S SPORTS OFF SEASON TRAINING
3 Units 10 hours lab
Transfers: CSU, UC
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.
Grading Method: GN - Letter Grade only
R-E-3

IA 21 WOMEN'S SOCCER
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 22 WOMEN'S SAND VOLLEYBALL
3 Units 10 hours lab
Transfers: CSU, UC
Limitation: Pre-participation 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.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

IA 30 MEN'S SPORTS OFF SEASON TRAINING
0.5 Unit 2.5 hours lab
Transfers: CSU, UC
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.
Grading Method: GN - Letter Grade only
R-E-3

IA 30 MEN'S SPORTS OFF SEASON TRAINING
1.5 Units 5 hours lab
Transfers: CSU, UC
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.
Grading Method: GN - Letter Grade only
R-E-3

IA 30 MEN'S SPORTS OFF SEASON TRAINING
3 Units 10 hours lab
Transfers: CSU, UC
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.
Grading Method: GN - Letter Grade only
R-E-3

Interior Design

ID 110 FUNDAMENTALS OF INTERIOR DESIGN
3 Units 3 hours lecture
Transfers: CSU
An introductory Interior Design course covering design elements and principles and the design process as related to interiors. Evaluation of color theories, space planning, and building systems. The aesthetic and functional assessment of lighting, furnishings, materials, and accessories will be covered as well as the survey of the interior design profession, historical design, and special considerations for sustainability and accessibility.
Grading Method: GR - Letter Grade or Pass/No Pass
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 112
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 115 CAD FOR INTERIOR DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ID 112
Basic skills, techniques, and uses for computer-aided design and drafting for interior design applications.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 121 SPACE PLANNING
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Recommended Preparation: ID 112
The application of programming, theory, and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized in the studio.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 126 INTERIOR DESIGN STUDIO II
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: ID 111
Recommended Preparation: ID 131
Develop, analyze, and apply design concepts to non-residential 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 127 FUNDAMENTALS OF LIGHTING
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: ID 110 and 112
A study of lighting theory, light sources, lighting techniques, codes and energy-efficiency issues for interior environments. Emphasis is placed on developing and communicating lighting design solutions for interior applications including lighting concepts, specifications, schedules, and working drawings for residential and commercial environments.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 128 BUSINESS AND PROFESSIONAL PRACTICE FOR INTERIOR DESIGN
3 Units 3 hours lecture
Transfers: CSU
Recommended Preparation: ID 111
Business and professional management of an Interior Design practice including legal issues, project management, and business practices.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 129 INTERIOR DESIGN INTERNSHIP
1 Unit 1 hour lecture
Transfers: CSU

This course prepares an advanced interior design student for a professional Interior Design internship. Students will develop a comprehensive interior design portfolio, prepare a resume, and practice interviewing techniques to secure an internship within the Interior Design field. Site visits will be required to meet course objectives.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 131 DIGITAL VISUALIZATION FOR INTERIOR DESIGN
3 Units 2 hours lecture 3 hours lab
Transfers: CSU

Recommended Preparation: ID 115 and students should have basic knowledge of computer operation, file management, and Internet navigation.

Methods, techniques, and tools for creating digital 3D models, interior architectural drawings, rendered illustrations, and visual presentations by utilizing a variety of software programs and technologies to effectively communicate design concepts and solutions.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 132 CODES AND SPECIFICATIONS FOR INTERIOR DESIGN
3 Units 3 hours lecture
Transfers: CSU

Explores federal, state, and local codes, standards, and regulations that impact residential and commercial interior environments. Special attention is given to requirements concerning life-safety issues, barrier-free access (Americans with Disabilities Act), sustainable principles, mechanical and electrical systems, and furniture and finish specifications in application to interior design projects.

Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 210 HOSPITALITY DESIGN
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: ID 111 and 131

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.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 214 BATH DESIGN
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: ID 111 and ID 131

Analysis and application of the design process to space planning, materials and finish selections, codes application, and specification of cabinetry, fixtures, and specialized equipment unique to the bath spaces. Design solutions for residential baths following the National Kitchen and Bath Association (NKBA) standards will be developed in the studio. Field trips may be required to meet course objectives.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

ID 215 KITCHEN DESIGN
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: ID 111 and 131

Analysis and application of the design process to space planning, materials and finish selection, codes application, and specification of cabinetry, fixtures, and specialized equipment unique to the kitchen spaces. Design solutions for residential kitchens following the National Kitchen and Bath Association (NKBA) standards will be developed in the studio. Field trips may be required to meet course objectives.

Grading Method: GR - Letter Grade or Pass/No Pass
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.

Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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 Japanese 2 language course.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

JRN 2 NEWS WRITING
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Kinesiology

KNES 1 CARDIOVASCULAR CONDITIONING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 3 CIRCUIT WEIGHT TRAINING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 4 BEGINNING WEIGHT LIFTING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 5 INTERMEDIATE WEIGHT LIFTING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 6 ADVANCED WEIGHT LIFTING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 7 STEP TRAINING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 8 BEGINNING CARDIO KICKBOXING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 9 STRETCHING, FLEXIBILITY, AND CONDITIONING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 10 CROSS TRAINING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 15 INTERMEDIATE CYCLING AND SPINNING
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in KNES 15 and 19.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 16 INTERMEDIATE CARDIO KICKBOXING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 17 BEGINNING BOWLING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 18 INTERMEDIATE BOWLING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 19 BEGINNING CYCLING AND SPINNING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 20 BEGINNING GOLF I
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 21 BEGINNING GOLF II
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 22 INTERMEDIATE GOLF
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 23 ADVANCED GOLF
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 24 BEGINNING TENNIS I
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 25 BEGINNING TENNIS II
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 26 INTERMEDIATE TENNIS
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 27 ADVANCED TENNIS
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 28 BEGINNING YOGA
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 29 INTRODUCTION TO TAI CHI CH'UAN
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 31 MUSCLE TONING FOR WOMEN
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 33 BEGINNING SURFING I
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Introduces students to the history and globalization of surfing, fundamental principles of surfboard design, and equipment options. Students will learn basic knowledge related to ocean safety, surf conditions, and surfing etiquette. An emphasis will be placed on beginning-level surfing skills and techniques. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 34 BEGINNING SURFING II - SHORTBOARDING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 35 INTERMEDIATE SURFING
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Recommended Preparation: KNES 34
For the surfer who can negotiate waves and do basic turns on a consistent basis. Ocean knowledge such as currents, wave development, wind pattern, and ocean floor terrain. Short and longboard maneuvers as: Duck dive, cutback, "off the lip," roundhouse, sideslip, crossover, and walk to nose. Students provide own equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 36 ADVANCED SURFING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 37 INTERMEDIATE TAI CHI CH'UAN
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 38 INTERMEDIATE MAT PILATES
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: 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. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 38 INTERMEDIATE MAT PILATES
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: 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. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 39 INTERMEDIATE YOGA
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 40 ADVANCED YOGA
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 41 SWIMMING FOR NONSWIMMERS
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 42 INTERMEDIATE SWIMMING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 43 ADVANCED SWIMMING AND DIVING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 lifesaving 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 44 AQUATIC CONDITIONING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 49 AQUA AEROBICS
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 50 AEROBIC DANCE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Students are limited to a combined total of four enrollments in KNES 57 and 58.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Students are limited to a combined total of four enrollments in KNES 56 and 59.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 63 BEGINNING ROCK CLIMBING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 65 INTRODUCTION TO MAT PILATES
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 66 CORE TRAINING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 68 WALKING FOR FITNESS
1 Unit 0.5 hour 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 concepts and techniques of walking for fitness, with a progressive training program for students of all ages and skill levels. Course may include off campus walks. Students are limited to a combined total of four enrollments in KNES 68, 69, and 86.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 69 TRAIL HIKING
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: Students should be able to complete a 1.0 mile walk within 20 minutes.
Introduction to hiking on trails, safety concerns, etiquette, and hiking essentials to achieve lifelong fitness outdoors. Exploration of scenic trails including the coast, canyons, parks, hills, and open space areas. Trails are off-campus and students must provide their own transportation. Students are limited to a combined total of four enrollments in KNES 68, 69, and 86.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 70 BASKETBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 71 ADVANCED BASKETBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 72 BEGINNING SOCCER
1 Unit 0.5 hour 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, 73, and 175.
Grading Method: GR - Letter Grade or Pass/No Pass
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, 73, and 175.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 73 ADVANCED SOCCER
1 Unit 0.5 hour 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, 73, and 175.
Grading Method: GR - Letter Grade or Pass/No Pass
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, 73, and 175.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 76 BEGINNING VOLLEYBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 77 INTERMEDIATE VOLLEYBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 78 ADVANCED VOLLEYBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 79 ADVANCED BASEBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 81 BEGINNING BEACH VOLLEYBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 84 INTERMEDIATE BEACH VOLLEYBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 85 ADVANCED BEACH VOLLEYBALL
1 Unit 0.5 hour 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. Students arrange their own transportation to beach volleyball sites. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 86 BACKPACKING
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in KNES 68, 69, and 86.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 88 INTERMEDIATE ROCK CLIMBING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 89 ADVANCED ROCK CLIMBING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 90 BEGINNING SELF-DEFENSE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 91 INTERMEDIATE SELF DEFENSE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 93 BEGINNING KARATE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 97 INTERMEDIATE KARATE
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 98 INTRODUCTION TO QIGONG
1 Unit 0.5 hour 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. Students are limited to a combined total of four enrollments in KNES 29, 37, and 98.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 110 THEORY AND TECHNIQUES OF PERSONAL TRAINING
3 Units 3 hours lecture
Transfers: CSU

A comprehensive course introducing students to the theories, concepts, and techniques involved in various fitness, health, and wellness training programs. This course emphasizes integrative training techniques specifically focused on cardiovascular fitness, resistance training, and functional programming. Additional topics include psychological and social behaviors, connection between the mind and body, nutrition, disease prevention, and injury care. Students will be required to design a personal fitness, health, and wellness program. Course prepares students to further their certification with the American Council of Exercise (ACE). Recommended to be taken concurrently with KNES 112. (formerly KNES 210)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 112 THE PROFESSION OF PERSONAL TRAINING
2 Units 2 hours lecture
Transfers: CSU

This course introduces students to the profession of personal training. It covers such topics as, scope of practice, business fundamentals, professional responsibilities, and legal guidelines. Students will learn how to build rapport and communicate with clients. Off-campus trips may be required. Course prepares students to further their certification with the American Council of Exercise (ACE) exam. Recommended to be taken concurrently with KNES 110. (formerly KNES 212)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 121 COMPLEMENTARY AND ALTERNATIVE HEALTH PRACTICES
3 Units 3 hours lecture
Transfers: CSU

Explores a variety of complementary and alternative health practices originating from various cultures around the world. Students will be introduced to the historical backgrounds and philosophies, examine the associated research, benefits, precautions, and practical techniques, as well as investigate potential occupational opportunities. Students will also analyze how individuals and professionals in the fitness and wellness fields may benefit from such knowledge, techniques, and practices.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 175 FUTSAL-INDOOR SOCCER
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU

Futsal/Indoor Soccer is a fast paced soccer game played 5v5 on hard court, grass and indoor surfaces. Designed for students with beginning Indoor Soccer/Futsal ability. Students will improve skills through the application of rules, theory, and study. Students will improve flexibility and endurance by participating in beginning Futsal/Indoor Soccer scrimmages and games. Students are limited to a combined total of four enrollments in KNES 72, 73, and 175.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 177 SPORTS OFFICIATING
2 Units 2 hours lecture
Transfers: CSU

Introduction to contest rules and the mechanics of officiating selected sports. Sport culture, rules, sportsmanship, and officiating guidelines.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 187 BEGINNING PICKLEBALL
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 199 STREET MARTIAL ARTS
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 207 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 (formerly KNES 404; formerly KNES 204).

Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 220 HOLISTIC HEALTH - UNDERLYING MECHANISMS
3 Units 3 hours lecture

Designed to introduce students to foundational anatomical structures, basic principles of physiology, and behavioral connections through a holistic perspective. Emphasis will be placed on analyzing the systems of the body and use of holistic techniques for achieving and maintaining optimal health. Students will explore an integrative approach to the underlying mechanisms of performance and well being while promoting positive lifestyle changes. This course does not satisfy any Biology or Nursing program prerequisites.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 222 INTRODUCTION TO AYURVEDA
3 Units 3 hours lecture

Deemed the "Sister Science of Yoga," and translated as the "Science of Living," Ayurveda is a holistic healthcare system that has been practiced for over 5000 years. This course provides an overview of Ayurveda's historical roots, globalization, and modernization while introducing students to the foundational principles and key practices. Emphasis will be on the use of an ayurvedic approach to examine how nutrition, exercise, and lifestyle choices, as well as behavior, social, and environmental interactions, play a role in one's overall health, performance, and well-being. This course will also investigate how ayurveda can be integrated into various fitness and wellness professions.

Grading Method: GR - Letter Grade or Pass/No Pass
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).

Grading Method: GR - Letter Grade or Pass/No Pass
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).

Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNES 405 EXPLORING THE YOGA SUTRAS
1 Unit 1 hour lecture

Examination of the Yoga Sutras of Patanjali. The Sutras provide essential underpinning for modern practices of yoga, and explores key philosophical concepts. In this course, students will develop their understanding of the Sutras through self-reflective assignments and translations of key terms, focusing on both historical and contemporary applications. Eligible for Yoga Alliance continuing education credit.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

Kinesiology Adapted

KNEA 1 ADAPTED STRENGTH TRAINING
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC

Fitness class stressing strength, resistance training, and endurance exercises individualized to meet goals, precautions, and contraindications related to student's ability. Designed for students that have participated in physical therapy, have chronic pain or permanent disability.

Grading Method: GR - Letter Grade or Pass/No Pass
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 exercises individualized to meet goals, precautions and contraindications related to student's ability. Designed for students that have participated in physical therapy, have chronic pain or permanent disability.

Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 3 ADAPTED CARDIOVASCULAR CONDITIONING
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC

Fitness class stressing aerobic conditioning and cardiovascular fitness activities individualized to meet goals, precautions, and contraindications related to student's ability. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability.

Grading Method: GR - Letter Grade or Pass/No Pass
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 activities individualized to meet goals, precautions, and contraindications related to student's ability. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 4 ADAPTED STRETCHING AND CORE TRAINING
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC

Fitness class stressing flexibility and core strengthening exercises individualized to meet goals, precautions and contraindications related to student's ability. Designed for students that have participated in physical therapy, have chronic pain or permanent disability.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 4 ADAPTED STRETCHING AND CORE TRAINING
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC

Fitness class stressing flexibilty and core strengthening exercises individualized to meet goals, precautions and contraindications related to student's ability. Designed for students that have participated in physical therapy, have chronic pain or permanent disability.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 5 ADAPTED SWIMMING
1 Unit 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 5 ADAPTED SWIMMING
0.5 Unit 0.5 hour lecture 0.5 hour 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 7 ADAPTED WATER EXERCISE AND AEROBICS
1 Unit 0.5 hour 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 dumbells, and noodles. Teaching methods are adapted to meet individualized needs.
Grading Method: GR - Letter Grade or Pass/No Pass
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 dumbells, and noodles. Teaching methods are adapted to meet individualized needs.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 7 ADAPTED WATER EXERCISE AND AEROBICS
0.5 Unit 0.5 hour lecture 0.5 hour 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 dumbells, and noodles. Teaching methods are adapted to meet individualized needs.
Grading Method: GR - Letter Grade or Pass/No Pass
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 modified and designed for students that have participated in therapy, rehabilitation, have chronic medical diagnosis or any cognitive, behavioral, and/or physical disabilities. The class focuses on safety, outdoor fitness conditioning, and the basic skills needed to interact with the outdoor environment while participating in one or more outdoor activities, including but not limited to; stand up paddling, kayaking, sailing, surfing, hiking, rock climbing, and archery.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 9 ADAPTED YOGA
1 Unit 0.5 hour lecture 1.5 hours lab
Transfers: CSU, UC
Yoga class with poses that are individualized to meet goals, precautions, and contraindications related to student's ability. For example, the focus of some of the postures will include: postural alignment, flexibility, strength, endurance, and mobility. The use of props such as: bolsters, pillows, wedges, blankets, blocks, and straps are incorporated into the class to modify yoga poses according to the individual's needs. Furthermore, poses can be modified, i.e. using a chair or wheelchair (WC), if a student needs postural or balance support to participate in class. Includes breathing techniques for attention, focus, and relaxation. Designed for students with chronic pain, or any cognitive, behavioral or physical disabilities or whom have participated in physical therapy or rehabilitation.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 9 ADAPTED YOGA
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU, UC
Yoga class with poses that are individualized to meet goals, precautions, and contraindications related to student's ability. For example, the focus of some of the postures will include: postural alignment, flexibility, strength, endurance, and mobility. The use of props such as: bolsters, pillows, wedges, blankets, blocks, and straps are incorporated into the class to modify yoga poses

according to the individual's needs. Furthermore, poses can be modified, i.e. using a chair or wheelchair (WC), if a student needs postural or balance support to participate in class. Includes breathing techniques for attention, focus, and relaxation. Designed for students with chronic pain, or any cognitive, behavioral or physical disabilities or whom have participated in physical therapy or rehabilitation.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 HSC/KNEA 151. Prepares eligible students to sit for American College of Sports Medicine Fitness Inclusive Trainer.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

KNEA 300NC 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 (formerly KNEA 300).
Grading Method: NC - Noncredit
NR

KNEA 310NC 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 (formerly KNEA 310).
Grading Method: NC - Noncredit
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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 the efficient and ethical use of information, particularly scholarly, statistical, and primary sources relevant to honors research projects. Exploration of the changing information technology used in the digital environment and its social and cultural impact on users. Emphasis on the construction of annotated bibliographies and literature reviews and effective search strategies for library catalogs, periodical databases, and collections of peer-reviewed journals. Evaluation of online

information sources such as news sources, social media, and open access publications.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MFG 201 ADVANCED CAD MODEL MAKING AND TOOLING
3 Units 2 hours 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 estuarian environments as well as human impacts on the ecosystem. Field trips may be required to fulfill the objectives of this course.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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
Preparation for calculus. Topics covered include polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MATH 3B ANALYTIC GEOMETRY AND CALCULUS
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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
This course teaches students how to use hypothesis testing and predictive techniques to facilitate decision-making. Students apply statistical methods and technology to study problems in a variety of disciplines including business, social sciences, psychology, life science, health science, and education.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MATH 30A COMPUTER DISCRETE MATHEMATICS I
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 2, and CS 1A
This course is designed primarily for computer science majors. Areas of study include logic, proofs, basic structures, algorithms, integers, matrices, induction, recursion, counting principles, discrete probability, inclusion-exclusion, and graphs and trees. This course is also listed as CS 30A; credit will be given in either area, not both. C-ID: COMP 152
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MATH 30B COMPUTER DISCRETE MATHEMATICS II
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: CS 30A, or MATH 30A
This course is designed primarily for computer science majors. Major topics include propositional logic, proofs, recursion, combinatorics, probability, number theory, relations, graphs, trees, Boolean algebra, and modeling computation. This course is also listed as CS 30B; credit will be given in either area, not both.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MATH 207S SUPPORT FOR COLLEGE ALGEBRA
2 Units 2 hours lecture
Prerequisite: Placement by the current assessment process
Corequisite: MATH 7
A supplemental math course taught in conjunction with Math 7. Designed to help students succeed in Math 7 by providing instructional support and just-in-time remediation of core prerequisite skills. Pass/No Pass only. Passing Math 207S is contingent on passing Math 7 with a C or better.
Grading Method: PN - Pass/No Pass
NR

MATH 208S SUPPORT FOR COLLEGE ALGEBRA FOR BRIEF CALCULUS
2 Units 2 hours lecture
Prerequisite: Placement by the current assessment process.
Corequisite: MATH 8
A supplemental math course taught in conjunction with Math 8. Designed to help students succeed in Math 8 by providing instructional support and just-in-time remediation of core prerequisite skills. Pass/No Pass only. Passing Math 208S is contingent on passing Math 8 with a C or better.
Grading Method: PN - Pass/No Pass
NR

MATH 210S SUPPORT FOR MATH 10
2 Units 2 hours lecture
Prerequisite: Placement by the current assessment process.
Corequisite: MATH 10
A supplemental math course taught in conjunction with Math 10. Designed to help students succeed in Math 10 by providing instructional support and just-in-time remediation of core prerequisite skills. Pass/No Pass only. Passing Math 210S is contingent on passing Math 10 with a C or better.
Grading Method: PN - Pass/No Pass
NR

MATH 224S SUPPORT FOR MATH 124
2 Units 2 hours lecture
Prerequisite: Placement by the current assessment process.
Corequisite: MATH 124
A supplemental math course taught in conjunction with Math 124. Designed to help students succeed in Math 124 by providing instructional support and just-in-time remediation of core prerequisite skills. Pass/No Pass only. Passing Math 224S is contingent on passing Math 124 with a C or better.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MATH 253S SUPPORT FOR INTERMEDIATE ALGEBRA
2 Units 2 hours lecture
Prerequisite: Placement by the current assessment process.
Corequisite: MATH 253
A supplemental math course taught in conjunction with Math 253. Designed to help students succeed in Math 253 by providing

instructional support and just-in-time remediation of core prerequisite skills. Pass/No Pass only. Passing Math 253S is contingent on passing Math 253 with a C or better.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Medical Assisting

MA 206 INTRODUCTION TO MEDICAL ASSISTING
3 Units 3 hours lecture
Introduces the career of medical assisting. Discusses the history and evolution of health care; health care settings; roles and responsibilities of healthcare professionals including the medical assistant's scope of practice; medical law, ethics, nutritional care, emergency preparation, safety in the medical office, career planning and fundamentals of medical office management. Letter Grade Only.
Grading Method: GN - Letter Grade only
NR

MA 211B PHYSICAL-EXAMINATION PROCEDURES
3 Units 2 hours lecture 3 hours lab
Teaches and prepares students for work in the back office, students learn and demonstrate clinical skills including conducting the patient interview, documentation in the medical record, performance of measurements including height, weight, vital signs, Distance Visual Acuity, provision of age related instructions. Includes introduction to diagnostic, radiology and physical therapy procedures, patient preparation, equipment selection for general and specialty exams to assist the physician in the medical office, clinic or healthcare facility. . Letter grade only.
Grading Method: GN - Letter Grade only
NR

MA 212B MEDICAL OFFICE LABORATORY PROCEDURES
3 Units 2 hours lecture 3 hours lab
Students develop competency related to clinical laboratory procedures performed in the medical office including: specimen collection, preparation and processing to insure accurate results. Students identify equipment, demonstrate specimen collection procedures for: urine, wound, throat and blood in compliance with regulatory requirements. Meets state requirement for venipuncture and capillary puncture procedures performed in the medical office. Letter grade only.
Grading Method: GN - Letter Grade only
NR

MA 213B MEDICAL ASEPSIS AND SURGICAL PROCEDURES
3 Units 2 hours lecture 3 hours lab
Recommended Preparation: HSC 104 and MA 211B
Develops selected medical-office clinical skills including medical and surgical asepsis, minor surgical techniques and medical office facilities and equipment management. Letter grade only.
Grading Method: GN - Letter Grade only
NR

MA 214B MEDICATION ADMINISTRATION PROCEDURES
3 Units 2 hours lecture 3 hours lab
Instruction on pharmacology, math calculations, anatomy, physiology, equipment, aseptic and sterile technique, patient care and education, emergency procedures, injections, skin testing and medication by inhalation. Meets requirements for medical assisting injection certification in the State of California.
Grading Method: GN - Letter Grade only
NR

MA 217A MEDICAL ASSISTING CLINICAL EXPERIENCE--ADMINISTRATIVE
3 Units 9 hours lab
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 5) Background clearance and drug screening
Recommended Preparation: Completion of all required didactic courses for the Administrative Medical Assistant Certificate.
Provides supervised directed practice 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.
Grading Method: GN - Letter Grade only
NR

MA 217B MEDICAL ASSISTING CLINICAL EXPERIENCE CLINICAL
3 Units 9 hours lab

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

Recommended Preparation: Completion of all required didactic courses for the Clinical Medical Assistant Certificate.

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.

Grading Method: GN - Letter Grade only
NR

MA 217C MEDICAL-ASSISTING CLINICAL EXPERIENCE COMPREHENSIVE
3 Units 9 hours lab

Limitation: Completion of: 1) 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, and 5) Background clearance and drug screening

Recommended Preparation: Completion of all didactic courses in the comprehensive medical assistant program.

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.

Grading Method: GN - Letter Grade only
NR

MA 218B ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT
3 Units 2 hours lecture 3 hours lab

Course designed to provide instruction and skills related to diagnostic testing of the cardiopulmonary system. Emphasis on the cardiopulmonary system, anatomy, physiology and the relationship to pathophysiology. Students learn how to prepare the patient and perform skills essential to diagnostic testing in the physician's office. Course is lecture lab with emphasis on skills demonstration. Letter grade only.

Grading Method: GN - 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.

Grading Method: GN - Letter Grade only
NR

MA 280 HEALTHCARE ORGANIZATION PRACTICES
3 Units 2 hours lecture 3 hours lab

Provides training and instruction on essential skills required to work in the medical office or healthcare setting using computers to simulate data entry, patient registration, appointment scheduling, creation of the patient account, written correspondence and essentials of the patient record, students learn communication techniques, telephone skills and soft skills, students are introduced to the structure of the medical office, workflow and methods of healthcare delivery and information. Letter grade only.

Grading Method: GN - Letter Grade only
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.

Grading Method: GN - 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). Topics such as clinical laboratory safety, regulatory agencies, infection control policies, standard operating procedures, and professional communication will be presented. The student will learn medical terminology, patient's bill of rights, pre-analytical evaluation of specimens, the laboratory information and data management systems.

Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
NR

MLT 230 CLINICAL CHEMISTRY
5 Units 5 hours lecture 1 hour lab
Prerequisite: CHEM 108 or equivalent
Recommended Preparation: MLT 211
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.
Grading Method: GN - Letter Grade only
NR

MLT 232 CLINICAL MICROBIOLOGY
3 Units 2 hours lecture 3 hours lab
Prerequisite: BIO 15 or equivalent
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.
Grading Method: GN - Letter Grade only
NR

MLT 235 CLINICAL URINALYSIS
1 Unit 0.5 hour lecture 1.5 hours lab
Prerequisite: BIO 113 or equivalent
Recommended Preparation: MLT 211
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.
Grading Method: GN - Letter Grade only
NR

MLT 236 CLINICAL HEMATOLOGY AND COAGULATION
3 Units 3 hours lecture 1 hour lab
Prerequisite: BIO 113 or equivalent
Recommended Preparation: MLT 211
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.
Grading Method: GN - Letter Grade only
NR

MLT 242 CLINICAL CHEMISTRY PRACTICUM
4 Units 12.5 hours lab
Prerequisite: MLT 230 and official admission to the MLT program
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.
Grading Method: GN - Letter Grade only
NR

MLT 243 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY
3 Units 2 hours lecture 3 hours lab
Prerequisite: MLT 236
Introduces the basic principles of antigen and antibody reactions and serological procedures. Includes introduction to principles and assays in immunohematology or blood bank.
Grading Method: GN - Letter Grade only
NR

MLT 244 CLINICAL HEMATOLOGY, COAGULATION, AND URINALYSIS PRACTICUM
4 Units 12.5 hours lab
Prerequisite: MLT 236 and MLT 235, official admission to the MLT program
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.
Grading Method: GN - Letter Grade only
NR

MLT 252 CLINICAL MICROBIOLOGY PRACTICUM
4 Units 12.5 hours lab
Prerequisite: MLT 232 and official admission to the MLT program
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.
Grading Method: GN - Letter Grade only
NR

MLT 253 CLINICAL IMMUNOLOGY - IMMUNOHEMATOLOGY PRACTICUM
3 Units 10 hours lab
Prerequisite: MLT 236, MLT 243 and official admission to the MLT program
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 immunohematology. 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.
Grading Method: GN - Letter Grade only
NR

MLT 410NC INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION
0 Unit 1 hour lecture
Introduces the student to the functions and responsibilities of the clinical laboratory assistant and phlebotomist in all departments of the clinical laboratory. Topics such as clinical laboratory safety, regulatory agencies, infection control policies, standard operating procedures, and professional communication will be presented. The student will learn medical terminology, patient's bill of rights, pre-analytical evaluation of specimens, the laboratory information and data management systems.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-1

MLT 411NC BASIC LABORATORY PROCEDURES
0 Unit 1 hour lecture
Designed to introduce the student to basic clinical laboratory procedures common to all diagnostic-related tasks. The student will learn to comply with mandated regulations on safety practices, follow standard operating procedures, perform pre-analytical procedures, demonstrate effective communication, use the laboratory information system to receive and process specimens, and operate basic lab equipment.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-1

MLT 412NC PHLEBOTOMY
0 Unit 4 hours lecture
Prerequisite: MLT 410NC and MLT 411NC
Corequisite: MLT 413NC
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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-1

MLT 413NC PHLEBOTOMY LABORATORY EXPERIENCE
0 Unit 3.5 hours lab
Corequisite: MLT 412NC
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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-1

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. C-ID: MUS 110
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: MUS 120/MUS 130
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: MUS 140
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: MUS 150
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 32 SINGING SOCIETY
2 Units 1 hour lecture 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college music faculty to demonstrate the ability to sightread representative works.
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, 134, 232, and 233.
Grading Method: GR - Letter Grade or Pass/No Pass
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, 134, 232, and 233.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Students are limited to a combined total of four enrollments in MUS 39, 182, 184, and 187.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 and 190.
Grading Method: GR - Letter Grade or Pass/No Pass
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 and 146.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 58 PIANO REPERTOIRE AND PERFORMANCE PROCEDURES
2.5 Units 2 hours lecture 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A or B or demonstrated proficiency
The study of important piano solo literature from Bach to contemporary with emphasis on technique and procedures in solo-performance preparation. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257.
Grading Method: GR - Letter Grade or Pass/No Pass
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, 171, and 173.
Grading Method: GR - Letter Grade or Pass/No Pass
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, 171, and 173.
Grading Method: GR - Letter Grade or Pass/No Pass
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, 171, and 173.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 78 KEYBOARD LITERATURE & INTERPRETATION - BAROQUE AND CLASSICAL
3 Units 2.5 hours lecture 2 hours lab
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. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Off campus performances required to meet course objectives. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82.
Grading Method: GR - Letter Grade or Pass/No Pass
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 repertory. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 repertory. Emphasis on German and French repertory from mid-Baroque period. 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 repertory. 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 High Baroque harpsichord schools of the 18th century. Students are limited to a combined total of four enrollments in MUS 86, 87, 88, and 89.
Grading Method: GR - Letter Grade or Pass/No Pass
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 repertory. 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 High Baroque pieces from French Clavecin school of the 18th century, early Classical and Galant and Contemporary styles. Students are limited to a combined total of four enrollments in MUS 86, 87, 88, and 89.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 112A JAZZ PIANO I
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
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 (formerly MUS 252A). Students are limited to a combined total of four enrollments in MUS 112A, 112B, and 112C.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 112B JAZZ PIANO II
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Recommended Preparation: MUS 112A 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 (formerly MUS 252B). Students are limited to a combined total of four enrollments in MUS 112A, 112B, and 112C.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 112C JAZZ PIANO III
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Recommended Preparation: MUS 112B 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 (formerly MUS 252C). Students are limited to a combined total of four enrollments in MUS 112A, 112B, and 112C.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 134 SATB CHAMBER SINGERS
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
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 (formerly MUS 234). Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 134, 232, and 233.
Grading Method: GR - Letter Grade or Pass/No Pass
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 140 and 197. Formerly offered as MUS 240.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

MUS 146 CONTEMPORARY BIG BAND LITERATURE
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
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 (formerly MUS 246). Students are limited to a combined total of four enrollments in MUS 47 and 146.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 147 MID-SIZE AFRICAN-AMERICAN BASED ENSEMBLE JAZZ
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Limitation: Audition with college faculty to demonstrate ability to read and play music at a high school level.
Recommended Preparation: MUS 27 and instrumental technical proficiency
Performance of music influenced by African-American improvised music in both a traditional and experimental scope (formerly MUS 242). Off campus performances required to meet course objectives. Students are limited to a combined total of four enrollments in MUS 147, 148, and 149.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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 off-campus 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 147, 148, and 149.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-1

MUS 149 MEDIUM SIZE MALLEABLE JAZZ ENSEMBLE
2 Units 1 hour lecture 3 hours lab
Transfers: CSU
Limitation: Audition with faculty to demonstrate ability to sight read and knowledge of all scales and keys.
Recommended Preparation: MUS 27 and instrumental technical proficiency
Performance of American improvised music by medium sized ensemble in both a traditional and experimental scope (formerly MUS 241). Off campus performances required to meet course objectives. Students are limited to a combined total of four enrollments in MUS 147, 148, and 149.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 150 BASIC ENSEMBLE I
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Limitation: Audition with college faculty to demonstrate 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 (formerly MUS 202). Students are limited to a combined total of four enrollments in MUS 150, 151, 176, and 177.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 151 BASIC ENSEMBLE II
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Limitation: Audition with college faculty to demonstrate 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 (formerly MUS 203). Students are limited to a combined total of four enrollments in MUS 150, 151, 176, and 177.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 152 ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS I
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Limitation: Audition with college faculty to demonstrate ability to read and play music at a high school level.
Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on sight reading skills (formerly MUS 206). Students are limited to a combined total of four enrollments in MUS 152, 153, 154, and 155.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 153 ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS II
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Limitation: Audition with college faculty to demonstrate ability to read and play music at a high school level.
Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on sound, cohesion and balance (formerly MUS 207). Students are limited to a combined total of four enrollments in MUS 152, 153, 154, and 155.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 154 ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS III
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Limitation: Audition with college faculty to demonstrate ability to read and play music at a high school level.
Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on advanced literature (formerly MUS 208). Students are limited to a combined total of four enrollments in MUS 152, 153, 154, and 155.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 155 ENSEMBLE TECHNIQUES FOR PROFESSIONAL MUSICIANS IV
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Limitation: Audition with college faculty to demonstrate ability to read and play music at a high school level.
Ensemble Techniques for professional musicians to upgrade their professional and performance skills in ensembles. Focuses primarily on rehearsal and performance techniques (formerly MUS 209). Students are limited to a combined total of four enrollments in MUS 152, 153, 154, and 155.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 156 ADVANCED PIANO PEDAGOGY
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Recommended Preparation: MUS 179 or four years of previous piano study
Designed to help the more experienced piano teachers refine their piano teaching techniques. Teaching demonstrations with younger students will be required. Piano literature for the late-intermediate and early-advanced levels will be emphasized (formerly MUS 256). Students are limited to a combined total of four enrollments in MUS 156, 178, and 179.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 171 BASIC GUITAR
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
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 (formerly MUS 260). Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 171, and 173.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 173 INTERMEDIATE GUITAR
1.5 Units 1 hour lecture 2 hours lab
Transfers: CSU
Recommended Preparation: MUS 171
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, 171, and 173.
Grading Method: GR - Letter Grade or Pass/No Pass
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 150, 151, 176, and 177.
Grading Method: GR - Letter Grade or Pass/No Pass
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 150, 151, 176, and 177.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 178 BEGINNING PIANO PEDAGOGY
3 Units 3 hours lecture 1 hour lab
Transfers: CSU
Recommended Preparation: Two years of piano study
Studies piano pedagogy techniques to enhance the musical development of the beginning student. Includes approaches to teaching children and adults, explores the history of piano method books and the most effective teaching methods used today. 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 156, 178, and 179.
Grading Method: GR - Letter Grade or Pass/No Pass
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 for the intermediate student. Demonstrates the most effective teaching methods used

today and emphasizes the technical and interpretive styles of the four major music periods. Includes approaches to teaching children and adults 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 156, 178, 179.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

MUS 181 KEYBOARD LITERATURE AND INTERPRETATION - ROMANTIC TO MODERN
3 Units 2.5 hours lecture 2 hours lab
Transfers: CSU
Recommended Preparation: MUS 55A or 78 or demonstrated equivalent piano 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. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 and 190.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 140 and 197. Formerly offered as MUS 297.
Grading Method: GR - Letter Grade or Pass/No Pass
R-E-3

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.
Grading Method: GN - Letter Grade only
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.
Grading Method: GN - Letter Grade only
NR

N 162 SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING
1 Unit 1 hour lecture
Transfers: CSU
Prerequisite: BIO 11, BIO 12, BIO 15, and ENG 1A or ENG 1AH
Corequisite: N 162 lab
Limitation: LVN with 1 year experience or transfer/international RN student. Must be completed within 3 semesters of entry into nursing program.
Addresses strategies for successful completion of the nursing program. Provides theory base and practice with study skills and test taking, critical thinking, use of information technology, the role of the registered nurse, nursing process, and effective and therapeutic communication. Includes practice of nursing skills in a simulated clinical learning environment in preparation for competency testing. Includes practice and competency testing in physical assessment, intravenous medication administration, medication math competency, and application of nursing process.
Grading Method: GN - Letter Grade only
NR

N 162 SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING LAB
0.5 Unit 1.5 hours lab
Transfers: CSU
Corequisite: N 162
Limitation: LVN with 1 year experience or transfer/int'l RN student. Complete within 3 semesters of entry into nursing program.
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.
Grading Method: GN - Letter Grade only
NR

N 164 LVN TO RN CLINICAL LAB
1.5 Units 4.5 hours lab
Transfers: CSU
Prerequisite: N 162
Limitation: Current LVN License, minimum of 1 year experience as an LVN, American Heart BLS certified, IV certification, physical exam and immunizations, TB test, malpractice insurance, background check
Recommended Preparation: N 245NC
This clinical lab class allows prospective LVN-RN students to apply nursing process and specific nursing skills learned in N 162 (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.
Grading Method: PN - Pass/No Pass
NR

N 165 LIFECYCLE 1, FUNDAMENTALS OF AGING
1.5 Units 1.5 hours lecture
Transfers: CSU
This course is 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, and cultural differences within the U.S., healthcare issues, and current concerns involving the older adult.
Grading Method: GN - Letter Grade only
NR

N 170 NURSING PROCESS
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: BIO 11, BIO 12, BIO 15 with a grade of "C" or better, and ENG 1A or ENG 1AH, and official admission to the nursing program
Corequisite: N 170
Limitation: Official admission to the nursing program.
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.
Grading Method: GN - Letter Grade only
NR

N 170 NURSING PROCESS LAB
4.5 Units 13.5 hours lab
Transfers: CSU
Prerequisite: BIO 11, BIO 12, BIO 15 with a grade of "C" or better, and ENG 1A or ENG 1AH, and official admission to the nursing program
Corequisite: N 170
Limitation: Official admission into the nursing program.
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.
Grading Method: GN - Letter Grade only
NR

N 171 MENTAL HEALTH NURSING
2 Units 2 hours lecture
Transfers: CSU
Prerequisite: N 170
Corequisite: N 171
Limitation: Official admission to the nursing program: 1. Completion of program application 2. Completion of required ATI Tests of Essential Academic Skills (TEAS) 3. Current physical exam 4. Current approved CPR Basic Life Support certification 5. Current liability insurance 6. Current background check
Recommended Preparation: PSYC 1 and completion of or concurrent enrollment in N160 and N165 with a grade of a "C" or better
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.
Grading Method: GN - Letter Grade only
NR

N 171 MENTAL HEALTH NURSING LAB
1 Unit 3 hours lab
Transfers: CSU
Prerequisite: N 170
Corequisite: N 171
Limitation: Official admission to the nursing program: 1. Completion of program application 2. Completion of required ATI Tests of Essential Academic Skills (TEAS) 3. Current physical exam 4. Current approved CPR Basic Life Support certification 5. Current liability insurance 6. Current background check
Recommended Preparation: PSYC 1 and completion of or concurrent enrollment in N160 and N165 with a grade of a "C" or better
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.
Grading Method: GN - Letter Grade only
NR

N 172 MEDICAL-SURGICAL NURSING
3.5 Units 3.5 hours lecture
Transfers: CSU
Prerequisite: N 160, N 165, N 170, and N 171 with a grade of "C" or better
Corequisite: N 172
Limitation: Admission to the nursing program
Recommended Preparation: HSC 228 and 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 psycho-social 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.
Grading Method: GN - Letter Grade only
NR

N 172 MEDICAL-SURGICAL NURSING LAB
5 Units 15 hours lab
Transfers: CSU
Prerequisite: N 160, N 165, N 170, and N 171 with a grade of "C" or better
Corequisite: N 172
Limitation: Admission to nursing program
Recommended Preparation: HSC 228 and 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.
Grading Method: GN - Letter Grade only
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 a grade of "C" or better
Corequisite: N 173
Limitation: Official admission to the nursing program; Tb test negative; If Tb test positive must have negative chest x-ray and symptoms evaluation
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.
Grading Method: GN - Letter Grade only
NR

N 173 NURSING CARE OF CHILDREN AND FAMILIES LAB
2 Units 6 hours lab
Transfers: CSU
Prerequisite: N 161 and N 172 with a grade of "C" or better
Corequisite: N 173
Limitation: Official admission to the nursing program.
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. 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 and 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 he values and

attitudes required of the professional nurse.
Grading Method: GN - Letter Grade only
NR

N 174 WOMEN'S HEALTH NURSING
1.5 Units 1.5 hours lecture
Transfers: CSU
Prerequisite: N 173 with a grade of "C" or better
Corequisite: N 174
Limitation: official admission to the nursing program.
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.
Grading Method: GN - Letter Grade only
NR

N 174 WOMEN'S HEALTH NURSING LAB
2 Units 6 hours lab
Transfers: CSU
Prerequisite: N 173 with a grade of "C" or better
Corequisite: N 174
Limitation: Official admission to the nursing program.
Focuses on integration and application of the nursing process to care for women, newborns, and families/significant others. The focus is on providing family centered care, application of nursing practice and professional standards, evidence-based practice, safety and quality improvement, nursing informatics and effective health care team 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. Letter grade only.
Grading Method: GN - Letter Grade only
NR

N 176 ADVANCED NURSING
3 Units 3 hours lecture
Transfers: CSU
Prerequisite: N 174 with a "C" grade or better
Corequisite: N 176
Limitation: Admission to the nursing program
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.

Grading Method: GN - 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

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.

Grading Method: GN - 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.

Grading Method: PN - Pass/No Pass

NR

N 204 BEGINNING NURSING CONCEPTS
2 Units 2 hours lecture

Introduces the theoretical basis of nursing and healthcare to provide knowledge to students considering a nursing career and to instill a successful transition into the student nurse role. Emphasis placed on Saddleback College nursing program's conceptual-nursing-process framework and program entrance requirements. Roles of the nursing student including requirements and expectations are delineated. Students are provided opportunity to begin exploring principles of critical thinking and clinical reasoning. Integrated concepts include: development of nursing, legal and ethical issues in health care, professional nursing practice, leadership and management in nursing, cultural awareness, nursing informatics, quality and safety in health care, communication, disease prevention, and role options of the professional nurse.

Grading Method: GN - Letter Grade only

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.

Grading Method: GN - Letter Grade only

NR

N 238 PERIOPERATIVE NURSING I
10 Units 3 hours lecture 21 hours lab

Limitation: Current or pending RN license, current CPR card, and current malpractice insurance

Perioperative nursing theory and practice necessary for entry level into the operating room. Focuses on utilization of the nursing process to provide care for clients undergoing surgical intervention. Provider approved by the California Board of Registered Nursing, Provider Number CEP60.

Grading Method: GR - Letter Grade or Pass/No Pass

NR

N 245 I.V. THERAPY TECHNIQUES FOR NURSES
1.5 Units 1.5 hours lecture

Prerequisite: N 170, or licensed registered nurse in the state of California

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.

Grading Method: GR - Letter Grade or Pass/No Pass

NR

N 263NC SKILLS LAB--BASIC
0 Unit 1 hour lab

Includes demonstration and practice of basic nursing 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 N 170. Non-credit, open-entry/open-exit.

Grading Method: NC - Noncredit

R-E-1

N 264NC SKILLS LAB--SPECIALTIES
0 Unit 1 hour lab

Prerequisite: N 172

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 N 173/N 174. Offered for non-credit only. Open entry/open exit.
Grading Method: NC - Noncredit
R-E-1

N 265NC SKILLS LAB--ADVANCED
0 Unit 0.5 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 N 176. Open-entry/ open-exit. Offered non-credit only.
Grading Method: NC - Noncredit
R-E-1

N 267NC SKILLS LAB--INTERMEDIATE
0 Unit 1 hour lab
Includes demonstration and practice of intermediate skills and procedures necessary for the student at the intermediate medical-surgical level. Develops competency in performance of skills such as suctioning, IV insertion, and other sterile procedures. Open-entry/open-exit. Offered for non-credit only. Recommended for students in N 172.
Grading Method: NC - Noncredit
R-E-1

N 268NC SKILLS LAB REVIEW
0 Unit 1 hour lab
Recommended Preparation: Currently enrolled or on a remediation plan for re-entry into the nursing program.
Includes demonstration and practice of nursing 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.
Grading Method: NC - Noncredit
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 careplans 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.
Grading Method: PN - Pass/No Pass
NR

N 400NC HOME HEALTH AIDE
0 Unit 0.48 hour lecture
The Home Health Aide program provides the student with the knowledge and skills required of home health agencies for basic personal care skills with effective communication to provide in-home assistance with nutrition, meal preparation, housekeeping, environmental safety and patient mobility. Program focuses on

the role of the home health aide.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

N 401NC HOME HEALTH AIDE PRACTICUM
0 Unit 0.48 hour lab
Prerequisite: N 400NC
The Home Health Aide practicum provides the student with the basic knowledge and skill to provide in home client assistance, personal care with nutrition, meal preparation, housekeeping, environmental safety and mobility.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

N 402NC EMERGENCY NURSE TRAINING THEORY
0 Unit 1.81 hours lecture
Limitation: Registered Nurse License AHA BLS Provider CPR card Negative TB test Insurance coverage Basic computer skills
An introduction for experienced and new graduate registered nurses to emergency nursing emphasizing the adaptive behaviors for critical thinking and skilled response to emergency department patient care. Provides the theoretical foundation for emergency nurses to learn critical knowledge and skills to effectively communicate, prioritize, problem solve and implement decisive care successfully in the emergency care setting. Intended for new graduate RNs and RNs transferring from other areas of nursing to emergency care. The course uses the Emergency Nurses Association, Emergency Nursing Core Curriculum text book as a guide to focus on physical, psychosocial, and clinical practice issues presented by patients in the emergency setting.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

N 403NC EMERGENCY NURSE TRAINING PRACTICUM
0 Unit 13.01 hours lab
Prerequisite: N 402NC
Limitation: Registered Nurse License AHA BLS Provider CPR card Negative TB test Insurance coverage Basic computer skills
An introduction to emergency nursing emphasizing the adaptive behaviors for critical thinking and skilled response to emergency department patient care. This course will focus on the critical practicum in an Emergency setting providing patient care as well as integrate the skill to communicate, prioritize, problem solve and implement decisive care successfully in the emergency care setting. Intended for new graduate RNs and RNs transferring to Emergency Care nursing. The course uses the Emergency Nurses Association, Emergency Nursing Core Curriculum text book as a guide to focus on physical, psychosocial clinical practices issues presented by patients in the emergency setting.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

N 422NC CERTIFIED NURSE ASSISTANT THEORY
0 Unit 5 hours lecture
Limitation: AHA BLS Provider card Criminal background check Fingerprinting
Certified Nurse Assistant (CNA) program provides student with the knowledge and skills required to provide basic nursing care and understand psychosocial/cultural differences of patients. Program focuses on the role of the certified nurse assistant,

safety precautions, emergency procedures, infection control and prevention, recognition of abuse and neglect, ability to provide for activities of daily living, personal hygiene, nutrition, safe food handling, body mechanics and transferring of patients. This program is the theory to prepare students to take the examination for the Certified Nurse Assistant issued by the California State Department of Health Services after the practicum is complete. Successful CNA's are employed in acute, long term and skilled health care facilities, residences and medical offices.

Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

N 423NC CERTIFIED NURSE ASSISTANT PRACTICUM
0 Unit 6 hours lab

Prerequisite: N 422NC

Limitation: AHA BLS Provider card Criminal background check Fingerprinting

Certified Nurse Assistant (CNA) practicum course provides student with the opportunity to demonstrate skills required to provide basic nursing care and demonstrate understanding of the psychosocial /cultural differences of patients. Program focuses on clinical application and skills for a CNA integrating safety precautions, emergency procedures, infection control and prevention, recognition of abuse and neglect, ability to provide for activities of daily living, personal hygiene, nutrition, safe food handling, body mechanics, transferring of patients. Course is the practicum preparing students to take the examination for the Certified Nurse Assistant issued by the California State Department of Health Services. Successful CNA's are employed in acute, long term and skilled health care facilities, residences and medical offices.

Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

N 478NC NURSING COMMUNICATION SKILLS, PART I
0 Unit 0.36 hour lecture

Limitation: Enrolled in Saddleback College Nursing Program.

Effective communication is essential in today's healthcare setting for promoting inter-professional collaboration, teamwork, patient-centered care, and ultimately, the improvement of patient outcomes. This course will serve to remediate nursing students who have been identified as needing to acquire and apply evidence-based communication techniques, either through self-referral or by a nursing instructor. Students will learn the value of positive, effective communication in the healthcare setting and in their own lives. This course is a part one of a two-part certification that will include communication in all forms: verbal and nonverbal, reading, writing and listening.

Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

N 479NC NURSING COMMUNICATION SKILLS, PART II
0 Unit 0.36 hour lecture

Prerequisite: N 478NC

Effective communication is essential in today's healthcare setting for promoting inter-professional collaboration, teamwork, patient-centered care, and ultimately, the improvement of patient outcomes. This course will serve to remediate nursing

students who have been identified as needing to acquire and apply evidence-based communication techniques, either through self-referral or by a nursing instructor. Students will learn the value of positive, effective communication in the healthcare setting and in their own lives. This course is a part two of a two-part certification that will include communication in all forms: verbal and nonverbal, reading, writing and listening.

Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

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

Corequisite: PM 230

Limitation: Physical examination required

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.

Grading Method: GN - Letter Grade only
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

Corequisite: PM 220

Limitation: Physical examination required

Skills assessment and hospital clinical requirements for students enrolled in the paramedic program.

Grading Method: GN - Letter Grade only
NR

PM 240 PARAMEDIC FIELD INTERNSHIP
12 Units 36 hours lab

Prerequisite: PM 220 and PM 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.

Grading Method: GN - Letter Grade only
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
NR

PHIL 5 HISTORY OF MODERN PHILOSOPHY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
A survey of the major trends in Western philosophical thought from the 16th century to the 18th century. Major figures will include Descartes, Locke, Hume, and Kant. The course will focus on the transition from a pre-modern to a modern worldview as it is reflected in Western philosophy. Students will investigate the powers and limits of human reason to understand humanity, language, religion, and the world.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PHIL 12 INTRODUCTION TO LOGIC
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 1A or ENG 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PHIL 15 INTRODUCTION TO ETHICS
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A or ENG 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Phlebotomy

PHLB 240 PHLEBOTOMY
4 Units 4 hours lecture
Corequisite: CWE 180
Limitation: Official admission to the Medical Lab Technology program. Current malpractice insurance, TB test results, CPR card, background check required.
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.
Grading Method: GN - 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. Field trips may be required to meet course requirements.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 lighting with electronic flash systems. Focus consists of conceptual photography, portraiture, and personal portfolio development. Continued refinement of photographic software techniques.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PHOT 190 SPECIAL PROBLEMS IN PHOTOGRAPHY
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
Prerequisite: PHOT 50
Continued exploration of photographic concepts, styles, and genres. Includes further development of creative and technical abilities utilizing specific lenses, methods, and equipment.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Physics

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, Hook's Law, simple harmonic motions, wave behavior, interference and standing waves, properties of fluids, Pascal's and Bernoulli's principles, temperature, heat calorimetry, the gas laws, and the laws of thermodynamics. Intended for students in the sciences and related subjects who are required to complete a physics course based on trigonometry.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PHYS 4B GENERAL PHYSICS
5 Units 4 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: PHYS 4A or 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. C-ID: PHYS 210
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PHYS 4C GENERAL PHYSICS
5 Units 4 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: PHYS 4A or 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. C-ID: PHYS 215
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PHYS 30 PHYSICS AND CHEMISTRY FOR ELEMENTARY EDUCATORS
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Prerequisite: Placement by the current assessment process or successful completion of MATH 253 with a "C" or better
Designed especially for the prospective elementary teacher, this course investigates the basic principles of physics and chemistry including matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions, and chemical reactions. The inter-dependence of chemistry and physics will be emphasized, and lectures and labs will examine physical science concepts such as conservation of energy through real-world examples including renewable and nonrenewable resources and their use in society, global warming, kitchen science, and the automobile. This course is intended for non-science majors.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: POLS 110
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: POLS 110
Grading Method: GN - 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: POLS 130
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: POLS 140
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
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. Credit may be earned for either PSYC 1 or 1H, but not both. C-ID: PSY 110
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: PSYC 200
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PSYC 2H HONORS 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. 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. Credit may be earned for PSYC 2 or 2H, but not both.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PSYC 5 PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1
An introduction to 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PSYC 7 DEVELOPMENTAL PSYCHOLOGY - CHILDHOOD THROUGH ADOLESCENCE
3 Units 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1
Introduction to 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PSYC 25 PSYCHOLOGY OF AGING
3 Units 3 hours lecture
Transfers: CSU, UC
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 (formerly, PSYC 125).
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: PSYC 170
Grading Method: GR - Letter Grade or Pass/No Pass
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 people's lives taking into account the influence of factors of culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized. C-ID: PSYC 115
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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)
Grading Method: GR - Letter Grade or Pass/No Pass
NR

PSYC 140 INTRODUCTION TO PSYCH AS A MAJOR AND PROFESSION
1.5 Units 1.5 hours lecture
Transfers: CSU
Introduction 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 DRE (California Department 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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 DRE (California Department of Real Estate). For professionals, consumers, and investors.
Grading Method: GR - Letter Grade or Pass/No Pass
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 DRE (California Department of Real Estate) basic education. For professionals, consumers and investors.
Grading Method: GR - Letter Grade or Pass/No Pass
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 Department of Real Estate (DRE) basic education. For consumers, professionals, and investors.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

RE 176A REAL ESTATE APPRAISAL I
3 Units 3 hours lecture
Transfers: CSU
Introduction to residential real estate appraisal. Applies toward Department of Real Estate (DRE) State's elective educational requirements for the Real Estate salesperson's exam. Applies toward DRE 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. This class qualifies toward DRE's (CA Department of Real Estate) educational requirements for the broker's examination and toward basic and continuing educational hours of Bureau of Real Estate Appraisers (BREA) credit.
Grading Method: GR - Letter Grade or Pass/No Pass
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).
Grading Method: GR - Letter Grade or Pass/No Pass
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 DRE (CA Department of Real Estate) elective educational requirements for the Real Estate Salesperson License. Applies toward DRE (California Department of Real Estate) core educational requirements for the broker's exam. For consumers, professionals, and investors.
Grading Method: GR - Letter Grade or Pass/No Pass
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 DRE (California Department of Real Estate) elective educational requirements for the Real Estate Salesperson license and as an elective for the broker's license. Letter grade of "C" or above applies toward the requirements of California Escrow Association professional designation. For consumers, investors, and professionals.
Grading Method: GR - Letter Grade or Pass/No Pass
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 DRE elective educational requirements for the Real Estate Salesperson License and Broker license. For consumers, investors, and professionals.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
NR

RE 202 COMPUTER APPLICATIONS IN REAL ESTATE
3 Units 3 hours lecture
A comprehensive look at modern computer technology and programs available for the real estate consumer, investor and aspiring real estate professional. Students will learn to streamline their real estate practice through the use of common computer applications available to the general public. Applies toward CA Department of Real Estate (DRE) Salesperson's and Broker's exam elective requirements.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

RE 255 REAL ESTATE LICENSE PREPARATION
1 Unit 1 hour lecture
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 license examination (formerly RE 250).
Grading Method: GR - Letter Grade or Pass/No Pass
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, agency relationships, advertising laws, HUD/RESPA calculations, and the loan process. This class satisfies the elective requirements for the California DRE Real Estate Salesperson's and Broker's licenses. For consumers, professionals, and investors.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Sign Language

SL 1 AMERICAN SIGN LANGUAGE I
4 Units 4 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 1A or ENG 1AH
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SL 10 DEAF CULTURE AND ITS HISTORY
3 Units 3 hours lecture
Transfers: CSU, UC
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 (formerly SL 101).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SL 121 AMERICAN SIGN LANGUAGE INTERPRETING I
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SL 4
Corequisite: SL 221
Recommended Preparation: Eligibility ENG 1A or 1AH
A continued review and refinement of advanced language principles. Explore the history and development of the field of interpreting. Examines the role of the interpreter and ethical standards. Application of critical thinking skills, self-analysis and professional ethics to the role of the interpreter. Includes working in multicultural settings with people with multiple disabilities, in

both formal and informal settings from voice to sign (English to ASL) and sign to voice (ASL to English).
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SL 122 AMERICAN SIGN LANGUAGE INTERPRETING II
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SL 121 and SL 221
Corequisite: SL 222
Recommended Preparation: Eligibility for ENG 1A or 1AH
Provides students with advanced interpreting skill placing greatest emphasis on interpreting in various settings from voice to sign (English to ASL) and sign to voice (ASL to English). Helps prepare students for entry-level employment as a sign language interpreter.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SL 221 AMERICAN SIGN LANGUAGE INTERPRETING LAB I
1 Unit 1 hour lecture 1 hour lab
Prerequisite: SL 4
Corequisite: SL 121
Recommended Preparation: ENG 1A or ENG 1AH
Provides beginning practice and review for interpreting for the Deaf in a variety of settings. Emphasis will be placed on advanced ASL grammar, structure and vocabulary.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SL 222 AMERICAN SIGN LANGUAGE INTERPRETING LAB II
1 Unit 1 hour lecture 1 hour lab
Prerequisite: SL 121
Corequisite: SL 122
Recommended Preparation: Eligibility for ENG 1A or 1AH
Provide intermediate practice in interpreting for the Deaf.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Sociology

SOC 1 INTRODUCTION TO SOCIOLOGY
3 Units 3 hours lecture
Transfers: CSU, UC
Introduction to the scientific study of society and human behavior, including core concepts and theories. Topics explored through the sociological perspective include: social institutions, culture, human behavior and relationships, social forces, socialization, social structure, social class, social inequality, gender, and social change. Credit may be earned for SOC 1 or 1H, but not both. C-ID: SOCI 110
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SOC 1H HONORS 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. The honors course is enriched by the level of resources used in research, more in-depth seminar style discussions, presentation of research, and by a smaller class size, allowing mentored individual research. Credit may be earned for SOC 1 or 1H, but not both. Letter grade only.
Grading Method: GN - Letter Grade only
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. Credit may be earned for SOC 2 or 2H, but not both. Letter grade only. C-ID: SOCI 115
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SOC 2H HONORS 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, criminal justice, the family, gender inequality, and race relations. Course includes a service learning requirement. The honors course is enriched by the level of resources used in research, more in-depth seminar style discussions, presentation of research in a public poster session, and by a smaller class size, allowing mentored individual research. Credit may be earned for SOC 2 or 2H, but not both. Letter grade only. C-ID: SOCI 115
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SOC 16 DEATH AND DYING
3 Units 3 hours lecture
Transfers: CSU, UC
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 (formerly, SOC 126).
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: PSYC 170
Grading Method: GR - Letter Grade or Pass/No Pass
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 healthcare system, retirement and work, gender inequalities, housing and transportation, recreation and leisure, family life, and politics and social policies. Particular attention to the sociological perspective of the aging process will be investigated. Course includes a service learning requirement.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SOC 180 INTRODUCTION TO AGING
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GN - Letter Grade only
NR

SPAN 2 ELEMENTARY SPANISH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 1 or 1H 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. Credit may be earned for either SPAN 2 or 2H, but not both. Letter grade or Pass/No Pass.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SPAN 2H HONORS ELEMENTARY SPANISH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 1 or 1H 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, 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 SPAN 2 or 2H, but not both. Letter grade only.
Grading Method: GN - Letter Grade only
NR

SPAN 3 INTERMEDIATE SPANISH
5 Units 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or SPAN 2H 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SPAN 21A CIVILIZATION OF LATIN AMERICA THROUGH 1900
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or SPAN 2H 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SPAN 21C HISPANIC CULTURE AND LITERATURE IN THE UNITED STATES
3 Units 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or SPAN 2H 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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Special Services

SPS 115 ALTERNATIVE LEARNING STRATEGIES
3 Units 3 hours lecture
Transfers: CSU
Provides students with 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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

SPS 315 LEARNING DEVELOPMENT PRACTICUM
1 Unit 3 hours lab
Designed as specialized prescriptive instruction based on individual needs focusing on basic skills development. Structured for the student with disabilities and is offered on an open-entry/open-exit, credit/no-credit basis. This course is offered on a pass/no-pass basis.
Grading Method: PN - Pass/No Pass
NR

SPS 316 SUCCESS STRATEGIES FOR BASIC SKILLS
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 all developmental skills courses, including writing, reading, and mathematics.
Grading Method: PN - Pass/No Pass
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.
Grading Method: PN - Pass/No Pass
NR

SPS 330 WRITING AND READING DEVELOPMENT FOR COLLEGE SUCCESS
3 Units 3 hours lecture
Designed as specialized instruction based on diagnosis of individual need in the areas of written communication, reading comprehension, and general academic learning for the student with disabilities. This course is offered on a pass/no-pass basis.
Grading Method: PN - Pass/No Pass
NR

SPS 360 ADAPTED COMPUTER SKILLS
1 Unit 1 hour lecture 0.5 hour lab
Provides students with physical and/or learning disabilities with the opportunity to acquire and reinforce skills on the computer with supervision. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis.
Grading Method: PN - Pass/No Pass
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. C-ID: THTR 151
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: THTR 152
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

TA 11 STAGE MOVEMENT
3 Units 2 hours lecture 3 hours lab
Transfers: CSU, UC
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. Field trips may be required. Students are limited to a combined total of four enrollments in TA 11, 35, 136, 190, and SP 35.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

TA 15 REHEARSAL AND PERFORMANCE - DRAMA
3 Units 9 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. C-ID: THTR 191
Grading Method: GN - Letter Grade only
R-E-2

TA 16 REHEARSAL AND PERFORMANCE - COMEDY
3 Units 9 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. C-ID: THTR 191
Grading Method: GN - Letter Grade only
R-E-2

TA 17 REHEARSAL AND PERFORMANCE - MIXED GENRES
3 Units 9 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. C-ID: THTR 191
Grading Method: GN - Letter Grade only
R-E-2

TA 19 REHEARSAL AND PERFORMANCE - MUSICAL THEATRE
3 Units 9 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.
Grading Method: GN - Letter Grade only
R-E-2

TA 20 THEATRE APPRECIATION
3 Units 3 hours lecture
Transfers: CSU, UC
This survey course will foster a student's appreciation of theatre and the performing arts. The course examines the duties and responsibilities of the various creative artists such as director, actor, designers, and playwrights and the process of creating live performance. C-ID: THTR 111
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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. C-ID: THTR 113
Grading Method: GR - Letter Grade or Pass/No Pass
NR

TA 28 THEATRE, PERFORMANCE, AND CULTURE
3 Units 3 hours lecture
Transfers: CSU, UC
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 (formerly TA 128).
Grading Method: GN - Letter Grade only
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, 190, and SP 35.
Grading Method: GN - Letter Grade only
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. Letter grade only. C-ID: THTR 175
Grading Method: GN - Letter Grade only
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).
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

TA 113 REHEARSAL AND PERFORMANCE - CHILDREN'S THEATRE
3 Units 9 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. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. C-ID: THTR 191
Grading Method: GN - Letter Grade only
R-E-2

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. Students will deepen understanding of vocal production, acquire additional tools for gaining mastery of the physical means of voice production, and apply the tools of IPA and diction work begun in previous classes to more complex use in poems and classical literature. 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. Field trips may be required. Students are limited to a combined total of four enrollments in TA 11, 35, 136, 190, and SP 35.
Grading Method: GN - Letter Grade only
NR

TA 190 ACTING FOR TELEVISION AND FILM
3 Units 2 hours lecture 3 hours lab
Transfers: CSU
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 (formerly TA 290). Students are limited to a combined total of four enrollments in TA 11, 136, 190, and SP/TA 35.
Grading Method: GN - Letter Grade only
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
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.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

TOUR 259 AIRLINE COMPUTER TRAINING
2 Units 1 hour lecture 3 hours lab
Recommended Preparation: TOUR 250
Designed to teach students how to use SABRE airline computer software systems including screen symbols and function keys. Basic system training includes passenger name record (PNR), automated ticketing, passenger and itinerary booking & modifications, basic faring, fare rules, pricing a PNR, fare shop, and fare quotes.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

TOUR 260 ADVANCED AIRLINE COMPUTER TRAINING
2 Units 1 hour lecture 3 hours lab
Recommended Preparation: TOUR 259

Designed to teach students how to use SABRE airline computing software systems. This specialized system is specific to the travel industry assisting agents in coordinating and synchronizing passenger name record, service sections including tours, ticket exchange, International travel, cruise, rail, taxes, travel insurance, car and hotel bookings.
Grading Method: GR - Letter Grade or Pass/No Pass
NR

Tutoring

TU 300 SUPERVISED TUTORING
0 Unit 3 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.
Grading Method: NC - Noncredit
R-E-99

Adult Education Courses

Adult Education
English as a Second Language

AESL 701NC
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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AESL 702NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AESL 703NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AESL 704NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AESL 705NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AESL 706NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AESL 707NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AESL 708NC 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.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass

R-E-99

AESL 710NC ADULT EDUCATION ESL FOR THE WORKPLACE I
0 Unit 4 hours lecture 2 hours lab

This noncredit course is designed to improve Intermediate ESL students' listening, reading, speaking and writing skills and likelihood of academic success in a CTE program and/or workforce. Focus will be on job-specific terminology, field-related readings, with an emphasis on oral communication through intermediate language skills instruction.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

AESL 720NC ADULT EDUCATION ESL FOR THE WORKPLACE II
0 Unit 4 hours lecture 2 hours lab

Prerequisite: AESL 710NC
This noncredit course is designed to improve advanced ESL students' listening, reading, speaking and writing skills and likelihood of academic success in a CTE program and/or workforce. Focus will be on job-specific terminology, field-related readings, with an emphasis on written communication through advanced language skills instruction.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-3

Adult Education Food and Nutrition

AEFN 789NC BASIC FOOD PREPARATION
0 Unit 1 hour lecture 3 hours lab

Prerequisite: FN 210NC or current ServSafe Certification
Introduction to the basic principles of food preparation. Students will learn proper measurement techniques, knife skills, cooking temperatures and functions of all equipment. Practical application of food selection, cost analysis, proper handling, cooking, safety and sanitation techniques will be covered.
Grading Method: NC - Noncredit
R-E-3

AEFN 790NC BAKING BASICS
0 Unit 1 hour lecture 3 hours lab

Prerequisite: FN 210NC or current ServSafe Certification
Introduction to fundamental principles of baking basics. Students will learn how to prepare simple quick breads, yeast dough (both lean and enriched), cookies, cupcakes, pastry fillings, tarts, pies and pie fillings. Career outlets and nutritional considerations also covered.
Grading Method: NC - Noncredit
R-E-3

AEFN 791NC HEALTHY COOKING
0 Unit 1 hour lecture 3 hours lab

Prerequisite: FN 210NC or current ServSafe Certification
Introduction to preparing 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.
Grading Method: NC - Noncredit
R-E-3

Adult Education High School Equivalency

AEBE 702NC ADULT EDUCATION BASIC EDUCATION LANGUAGE ARTS I
0 Unit 2 hours lecture 1 hour lab

This is a non-credit, open enrollment reading and writing course within the Adult Education Department that is designed for students who eventually plan to pass the state approved HSE exam. Course emphasizes development of strategies to effectively read and write in English for High School Equivalency (HSE) completion, and college and career readiness. Students read and report on fiction and non-fiction texts that relate to social studies, science and literature. Students meet composition objectives by writing well-organized and well-developed paragraphs and essays.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBE 703NC ADULT EDUCATION BASIC EDUCATION LANGUAGE ARTS II
0 Unit 2 hours lecture 1 hour lab

Prerequisite: AEBE 702NC
This is a non-credit, open enrollment reading and writing course within the Adult Education Department that is designed for students who plan to pass one of the three state approved HSE (High School Equivalency) exams. Students will practice fundamentals in three major content areas: Reading, Language Arts and Writing. Students will achieve the ability to read critically, the ability to write clearly, and the ability to edit and understand the use of standard written English in context.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBE 704NC ADULT EDUCATION BASIC EDUCATION MATH I
0 Unit 2 hours lecture 1 hour lab

This is a non-credit, open enrollment Adult Basic Education Mathematics course within the Adult Education Department. Course emphasizes development of strategies to effectively solve mathematical problems for students who eventually plan to pass one of the three High School Equivalency (HSE) exams, follow a CTE pathway, or attend academic college courses. Students meet class objectives through the use of fractions, percents, ratios, and proportions to solve problems relating to measurements, geometry and basic algebra.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBE 705NC ADULT BASIC EDUCATION MATH II
0 Unit 2 hours lecture 1 hour lab

Prerequisite: AEBE 704NC
This is a non-credit, open enrollment Mathematical Reasoning course within the Adult Education Department that is designed for students who plan to pass one of the three state approved High School Equivalency (HSE) exams. Students will further develop algebraic and quantitative problem solving skills in order to achieve a deeper conceptual understanding of mathematics, data analysis, procedural fluency, and the fundamentals of real world applications.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBE 792NC ADULT EDUCATION BASIC EDUCATION LANGUAGE ARTS LAB I
0 Unit 3 hours lab
Corequisite: AEBE 704NC
This course will provide students with the opportunity to prepare and demonstrate the skills necessary to be successful on the Mathematics test for high school equivalency. Students are provided individual support in material related to number operations, measurement, data analysis and probability.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBE 793NC ADULT EDUCATION BASIC EDUCATION LANGUAGE ARTS LAB II
0 Unit 3 hours lab
Corequisite: AEBE 705NC
This course will provide students with further opportunity to prepare and demonstrate the skills necessary to be successful on the Mathematics test for high school equivalency. Students are provided individual support in material related to algebra and geometry.
Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBE 794NC ADULT EDUCATION BASIC EDUCATION MATH LAB I
0 Unit 3 hours lab
Corequisite: AEBE 704NC
This course will provide students with the opportunity to prepare and demonstrate the skills necessary to be successful on the Mathematics test for high school equivalency. Students are provided individual support in material related to number operations, measurement, data analysis and probability.
Grading Method: Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBE 795NC ADULT EDUCATION BASIC EDUCATION MATH LAB II
0 Unit 3 hours lab
Corequisite: AEBE 705NC
This course will provide students with further opportunity to prepare and demonstrate the skills necessary to be successful on the Mathematics test for high school equivalency. Students are provided individual support in material related to algebra and geometry.
Grading Method: Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBT 701NC ADULT EDUCATION BASIC TECHNOLOGY SKILLS I
0 Unit 1.5 hours lecture 1.5 hours lab
Course teaches basic computer and technology skills, office productivity software, and internet use to adult learners using lecture and lab with practical application appropriate for ESL learners as well as native English speakers. Course is designed for students with limited computer knowledge. Students learn basic parts of the computer, keyboard and mouse operation, a brief introduction to office productivity software (word processing, spreadsheet, presentation software), and the basics of working with the Internet, email, and mobile devices for personal, business, and school purposes. No prior computer experience is needed but students should have some basic English skills prior to enrolling.
Grading Method: Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

AEBT 702NC ADULT EDUCATION BASIC TECHNOLOGY SKILLS II
0 Unit 1.5 hours lecture 1.5 hours lab
Prerequisite: AEBT 701NC
Continuation of AEBT 701 offering more office productivity software focusing on basic skills needed to succeed in today's school and business office environment. Exercises will include word processing, spreadsheet, presentation and communications software for entry-level employment. Students will also learn to navigate a learning management system used in college classes. Completion of AEBT 701 with a passing noncredit will be required before enrolling in AEBT 702.
Grading Method: Grading Method: SP - Noncredit Graded Pass/SP/No Pass
R-E-99

Adult Education with Disabilities

AEWD 771NC 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.
Grading Method: NC - Noncredit
R-E-99

AEWD 772NC 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.
Grading Method: NC - Noncredit
R-E-99

AEWD 773NC 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.
Grading Method: NC - Noncredit
R-E-99

AEWD 774NC 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.

Grading Method: NC - Noncredit

R-E-99

AEWD 775NC 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.

Grading Method: NC - Noncredit

R-E-99

AEWD 781NC 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.

Grading Method: NC - Noncredit

R-E-99

AEWD 782NC 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.

Grading Method: NC - Noncredit

R-E-99

AEWD 783NC 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.

Grading Method: NC - Noncredit

R-E-99

AEWD 784NC 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.

Grading Method: NC - Noncredit

R-E-99

Emeritus Courses

Emeritus Accounting

EACT 500 IMPROVING INVESTMENT PERFORMANCE (EI)
0 Unit 2 hours lecture
Understanding and evaluating investment performance for the beginning and experienced investor, including strategies critical to the formation, preservation and growth of financial assets. Primarily for the older adult. (formerly ACCT 229X).
Grading Method: NC - Noncredit
R-E-99

EACT 501 STOCKS AND BONDS MANAGEMENT (EI)
0 Unit 1 hour lecture
Studies global economics, stock and bond markets, with an emphasis on helping investors develop an informed and strategic investment philosophy. Primarily for the older adult. (formerly ACCT 232X).
Grading Method: NC - Noncredit
R-E-99

EACT 502 MANAGING INVESTMENT PERFORMANCE (EI)
0 Unit 1 hour lecture
Understanding and evaluating investment performance for the beginning and experienced investor, including strategies critical to the formation, preservation and growth of financial assets. Primarily for the older adult. (formerly ACCT 229X).
Grading Method: NC - Noncredit
R-E-99

EACT 503 MANAGING BONDS AND STOCKS (EI)
0 Unit 2 hours lecture
Examines the dynamics of global economics, stock and bond markets, and mutual funds with an emphasis on helping investors develop an informed and strategic investment philosophy. Primarily for the older adult. (formerly ACCT 232X).
Grading Method: NC - Noncredit
R-E-99

EACT 504 ESTATE PLANNING (EI)
0 Unit 2 hours lecture
Examines financial and estate planning matters. Topics may include probate estates, trusts, wills, property transfers, marital property, advance directives, powers of attorney, elder law, tax implications, and charitable gifts. Current information can include the California Probate Code, community property versus joint tenancy, and creation of investment models and wills. The student will learn personal financial planning, changes in estate and income tax law, money management and investment strategies. Primarily for the older adult.
Grading Method: Grading Method: NC - Noncredit
R-E-99

Emeritus Art

EART 500 ART APPRECIATION (EI)
0 Unit 1 hour lecture
Focuses on the fundamentals and aesthetics of the visual arts, as well as the major developments that shaped the evolution of Western art. Primarily for older adults. (formerly ART 20X).
Grading Method: NC - Noncredit
R-E-99

EART 501 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. Primarily for the older adult. (formerly ART 25X).
Grading Method: NC - Noncredit
R-E-99

EART 502 CONTEMPORARY ART AND CULTURE (EI)
0 Unit 2 hours lecture
Analyzes 20th century art, culture, and architecture. Explores cultural forces that have shaped and controlled art production. Explores gender and diversity in the art world. Primarily for the older adult. (formerly ART 28X).
Grading Method: NC - Noncredit
R-E-99

EART 503 FUNDAMENTALS OF ART ANALYSIS AND APPRECIATION (EI)
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. Primarily for the older adult. (formerly ART 20X).
Grading Method: NC - Noncredit
R-E-99

EART 509 SURVEY OF CERAMICS AND HANDBUILDING (EI)
0 Unit 0.5 hour lecture 1 hour lab
A practical and historical introduction to the ceramics process. The course will include hand building, trimming and finishing, firing and glazing. Primarily for the older adult. (formerly ART 10X).
Grading Method: NC - Noncredit
R-E-99

EART 510 CERAMICS HANDBUILDING (EI)
0 Unit 1 hour lecture 2 hours lab
A practical and historical introduction to the ceramics process. The course will include hand building, trimming and finishing, firing and glazing. Primarily for the older adult. (formerly ART 10X).
Grading Method: NC - Noncredit
R-E-99

EART 511 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. Primarily for the older adult. (formerly ART 11X).
Grading Method: NC - Noncredit
R-E-99

EART 512 INTERMEDIATE CERAMICS (EI)
0 Unit 0.5 hour lecture 1 hour lab
Recommended Preparation: EART 501
Covers theory, materials, and techniques of ceramics at an intermediate level. Includes design-forming techniques, the potter's wheel, glazing, and firing. Primarily for the older adult. (formerly ART 12X).
Grading Method: NC - Noncredit
R-E-99

EART 513 ADVANCED CERAMICS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 502
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. Primarily for the older adult. (formerly Art 13X).
Grading Method: NC - Noncredit
R-E-99

EART 514 BEGINNING CERAMICS-SLIPCASTING (EI)
0 Unit 1 hour lecture 0.5 hour lab
Theory and history of ceramics as well as basic techniques in ceramic slip casting, including pouring low fire slip into molds, finishing, carving, underglazes, glazes, and overglaze applications plus firing processes. Primarily for the older adult. (formerly ART 14XA).
Grading Method: NC - Noncredit
R-E-99

EART 515 INTERMEDIATE CERAMICS-SLIPCASTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 504
Intermediate level theory and technique in low firing clay slipcasting. Exploration of basic functions, forms, color, glazing and decorative techniques. Primarily for the older adult. (formerly 14XB).
Grading Method: NC - Noncredit
R-E-99

EART 516 ADVANCED CERAMICS-SLIPCASTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 505
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. Primarily for the older adult. (formerly ART 14XC).
Grading Method: NC - Noncredit
R-E-99

EART 517 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. Advanced student projects will provide for application of theory and practice of techniques. Primarily for the older adult. (formerly ART 14XD).
Grading Method: NC - Noncredit
R-E-99

EART 518 INTERMEDIATE CERAMICS-WHEEL (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 501
Covers theory, materials, and techniques of ceramics at an intermediate level. Includes design-forming techniques, use of the potter's wheel, glazing, and firing. Primarily for the older adult. (formerly ART 12X).
Grading Method: NC - Noncredit
R-E-99

EART 519 BEGINNING TECHNIQUES OF CERAMIC SLIPCASTING (EI)
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. Primarily for the older adult. (formerly known as ART 14XA).
Grading Method: NC - Noncredit
R-E-99

EART 520 BEGINNING INTARSIA (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 523
Traditional and contemporary intarsia techniques to create a variety of designs with inlaid stones. Primarily for the older adult. (formerly ART 31XA).
Grading Method: NC - Noncredit
R-E-99

EART 521 INTERMEDIATE INTARSIA (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 520
Develop a perspective of intarsia by size and color. Advanced methods in pointing and fitting of stone, and channel work. Primarily for the older adult. (formerly ART 31XB).
Grading Method: NC - Noncredit
R-E-99

EART 522 BEGINNING LAPIDARY (EI)
0 Unit 1 hour lecture 2 hours lab
Explores the proper usage of lapidary machines for cutting and polishing stones: slabsaw, trim saw, grinders, sanders, lapping wheels, polishers and drills. Primarily for the older adult. (formerly ART 61XA).
Grading Method: NC - Noncredit
R-E-99

EART 523 INTERMEDIATE LAPIDARY (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 522
Explores lapidary machines and hand tools for cutting and polishing stones from rough to semiprecious into a variety of shapes such as cachobons, cameos, and carvings for use in

decorative items and jewelry. Primarily for the older adult. (formerly ART 61XB).
Grading Method: NC - Noncredit
R-E-99

EART 524 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. Primarily for the older adult. (formerly ART 35XA).
Grading Method: NC - Noncredit
R-E-99

EART 525 ADVANCED STAINED GLASS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 524
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. Primarily for the older adult. (formerly ART 35XB).
Grading Method: NC - Noncredit
R-E-99

EART 530 BEGINNING ENAMELING (EI)
0 Unit 1 hour lecture 2 hours lab
Introductory studio course on the creation and design of decorative and jewelry pieces using basic enameling techniques. Primarily for the older adult. (formerly 33XA).
Grading Method: NC - Noncredit
R-E-99

EART 531 INTERMEDIATE ENAMELING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 530
A studio course emphasizing traditional and contemporary concepts, processes, and techniques in enameling at an intermediate level. Primarily for the older adult. (formerly ART 33XB).
Grading Method: NC - Noncredit
R-E-99

EART 532 BEGINNING JEWELRY METAL FABRICATION (EI)
0 Unit 0.5 hour lecture 1 hour lab
A studio course with emphasis on the basic metal manipulation techniques involved in making jewelry. Different projects taught each semester. Primarily for the older adult. (formerly ART 36XA).
Grading Method: NC - Noncredit
R-E-99

EART 533 INTERMEDIATE JEWELRY METAL FABRICATION (EI)
0 Unit 0.5 hour lecture 1 hour lab
Recommended Preparation: EART 532
An intermediate 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. Primarily for the older adult. (formerly ART 36XB).
Grading Method: NC - Noncredit
R-E-99

EART 534 ADVANCED JEWELRY METAL FABRICATION (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 533
A studio course offering advanced theory and methods, materials, designs and practices in the construction of complex jewelry and decorative items. Production methods will be discussed. Primarily for older adults. (formerly ART 36XC).
Grading Method: NC - Noncredit
R-E-99

EART 535 FUNDAMENTALS OF METAL FABRICATION FOR JEWELRY (EI)
0 Unit 1 hour lecture 2 hours lab
A studio course with emphasis on the basic metal manipulation techniques involved in making jewelry. Different projects taught each semester. Primarily for the older adult. (formerly ART 36XA).
Grading Method: NC - Noncredit
R-E-99

EART 536 INTER TECHNIQUES OF METAL FABRICATION FOR JEWELRY (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 532
An intermediate 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. Primarily for the older adult. (formerly ART 36XB).
Grading Method: NC - Noncredit
R-E-99

EART 540 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. Primarily for the older adult. (formerly ART 41X).
Grading Method: NC - Noncredit
R-E-99

EART 549 FUNDAMENTALS OF SKETCHING (EI)
0 Unit 1 hour lecture 2 hours lab
Basic drawing techniques with emphasis on dry media and ink. Students will work on gesture, construction, perspective and value. Primarily for the older adult. (formerly ART 80X).
Grading Method: NC - Noncredit
R-E-99

EART 550 BEGINNING SKETCHING (EI)
0 Unit 0.5 hour lecture 1 hour lab
Basic drawing techniques with emphasis on dry media and ink. Students will work on gesture, construction perspective and value. Primarily for the older adult. (formerly ART 80X).
Grading Method: NC - Noncredit
R-E-99

EART 551 INTERMEDIATE SKETCHING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 550
Using traditional and contemporary drawing media and techniques in a variety of subjects. Builds upon basic drawing techniques. Primarily for the older adult. (formerly ART 81X).
Grading Method: NC - Noncredit
R-E-99

EART 552 BEGINNING LIFE DRAWING (EI)
0 Unit 0.5 hour lecture 1 hour lab
Sketching and drawing the life model. Emphasis on the fundamental structure of the human body, including skeletal and muscular systems. Primarily for the older adult. (formerly ART 85X).
Grading Method: NC - Noncredit
R-E-99

EART 553 FUNDAMENTALS OF LIFE DRAWING (EI)
0 Unit 1 hour lecture 2 hours lab
Sketching and drawing the life model. Emphasis on the fundamental structure of the human body, including skeletal and muscular systems. Primarily for the older adult. (formerly ART 85X).
Grading Method: NC - Noncredit
R-E-99

EART 559 FUNDAMENTALS OF OIL/ACRYLIC PAINTING (EI)
0 Unit 1 hour lecture 2 hours lab
This course will serve as an introduction to the materials and techniques utilized in oil and/or acrylic painting. Primarily for the older adult population, students in this class will engage in activities and experiences to enhance and maintain their mental, social, and emotional well being through artistic expression. Students will have opportunities to learn and to create their own body of work in the classroom setting. Students will engage. interact, and collaborate through class discussions and presentations(formerly ART 50X).
Grading Method: NC - Noncredit
R-E-99

EART 560 BEGINNING PAINTING IN OIL/ACRYLIC (EI)
0 Unit 0.5 hour lecture 1 hour lab
Introductory course to the materials and techniques of oil and/or acrylic painting. Primarily for the older adult. (formerly ART 50X).
Grading Method: NC - Noncredit
R-E-99

EART 561 INTERMEDIATE PAINTING IN OIL/ACRYLIC (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 560
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. Primarily for the older adult. (formerly ART 51X).
Grading Method: NC - Noncredit
R-E-99

EART 562 ADVANCED PAINTING IN OIL-ACRYLIC (EI)
0 Unit 0.5 hour lecture 1 hour lab
Recommended Preparation: EART 561
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. Primarily for the older adult. (formerly ART 52X).
Grading Method: NC - Noncredit
R-E-99

EART 563 PAINTING IN SUBJECT AREAS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 562
Provides theory and demonstration of materials and techniques in a variety of subject matter and art mediums. Emphasis in working from life: plein air, figure and/or still life. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly ART 53X).
Grading Method: NC - Noncredit
R-E-99

EART 564 PORTRAIT PAINTING IN OILS, WATERCOLOR AND PASTELS (EI)
0 Unit 1 hour lecture 2 hours lab
Constructing the human head and features using a variety of painting styles and techniques. Demonstrations in oils, watercolors, and/or pastels. Primarily for the older adult. (formerly ART 54X).
Grading Method: NC - Noncredit
R-E-99

EART 565 SURVEY OF PAINTING IN MULTIPLE SUBJECT AREAS (EI)
0 Unit 0.5 hour lecture 1 hour lab
Recommended Preparation: EART 562
Provides theory and demonstration of materials and techniques in a variety of subject matter and art mediums. Emphasis in working from life: plein air, figure and/or still life. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly ART 53X).
Grading Method: NC - Noncredit
R-E-99

EART 566 ADVANCED PAINTING TECHNIQUES FOR OIL/ACRYLIC (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 561
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. Primarily for the older adult. (formerly ART 52X).
Grading Method: NC - Noncredit
R-E-99

EART 569 FUNDAMENTALS OF WATERCOLOR PAINTING (EI)
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. Primarily for the older adult. (formerly ART 58X).
Grading Method: NC - Noncredit
R-E-99

EART 570 BEGINNING WATERCOLOR (EI)
0 Unit 0.5 hour lecture 1 hour lab
Basic methods of applying watercolor: washes, color mixing, and brush technique. The spontaneity of transparent watercolor will be stressed and explored. Primarily for the older adult. (formerly ART 58X).
Grading Method: NC - Noncredit
R-E-99

EART 571 INTERMEDIATE-ADVANCED WATERCOLOR (EI)
0 Unit 0.5 hour lecture 1 hour lab
Recommended Preparation: EART 570
Advanced techniques in watercolor. Emphasis on the exploration of traditional and contemporary palette, technique and style. Primarily for the older adult. (formerly ART 59X).
Grading Method: NC - Noncredit
R-E-99

EART 572 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, botanical and landscape motifs. Traditional mounting of completed paintings. Primarily for the older adult. (formerly ART 55XA).
Grading Method: NC - Noncredit
R-E-99

EART 573 INTERMEDIATE CHINESE BRUSH PAINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 572
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. Primarily for the older adult. (formerly ART 55XB).
Grading Method: NC - Noncredit
R-E-99

EART 574 INTERMEDIATE-ADVANCED TECHNIQUES OF WATERCOLOR PAINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 570
Advanced techniques in watercolor. Emphasis on the exploration of traditional and contemporary palette, technique and style. Primarily for the older adult. (formerly ART 59X).
Grading Method: NC - Noncredit
R-E-99

EART 580 PASTEL PAINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Traditional and contemporary methods of pastel painting with soft and hard pastels. Emphasis in multilayered techniques. Primarily for the older adult. (formerly ART 56X).
Grading Method: NC - Noncredit
R-E-99

EART 590 BEGINNING SCULPTURE (EI)
0 Unit 1 hour lecture 2 hours lab
Introduction to sculptural ideas, and three dimensional design. The student will apply the theory and techniques of sculpture in selected materials. Primarily for the older adult. (formerly ART 70X).
Grading Method: NC - Noncredit
R-E-99

EART 591 INTERMEDIATE SCULPTURE (EI)
0 Unit 0.5 hour lecture 1 hour lab
Recommended Preparation: EART 590
Includes the creation of sculpture in historic, traditional and contemporary styles and techniques. The optional use of ceramic clay and synthetic modeling materials with emphasis on the figure. Primarily for the older adult. (formerly ART 71X).
Grading Method: NC - Noncredit
R-E-99

EART 592 INTERMEDIATE TECHNIQUES OF CERAMIC SCULPTURE (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EART 590
Includes the creation of sculpture in traditional, historic and contemporary styles and techniques. The use of ceramic clay, and synthetic modeling materials with emphasis on the figure. Primarily for the older adult. (formerly ART 71X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Biology

EBIO 500 BIRDS OF THE WORLD (EI)
0 Unit 1 hour lecture 2 hours lab
Includes bird ancestry, evolution, distribution, topography, behavior and techniques of field identification. Course includes field trips to local bird watching sites. Primarily for the older adult. (formerly BIO 226X).
Grading Method: NC - Noncredit
R-E-99

EBIO 501 ADVANCED BIRDING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EBIO 500
Designed for the older adult with previous coursework or experience in ornithology or birding. Course furthers the study of bird anatomy, ecology, and evolution of birds with an emphasis on developing student skills in identification of bird species in the field.
Grading Method: Grading Method: NC - Noncredit
R-E-99

Emeritus Computer Information Management

ECIM 501 LIFE AND TECHNOLOGY INTEGRATION (EI)
0 Unit 1 hour lecture 1 hour lab
Introduction 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. Topics include internet use, desktop and laptop computers, tablets, smart cell phones, apps, and other emerging technologies. Primarily for the older adult. (formerly CIM 1X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Human Ecology

EECL 501 HUMAN ECOLOGY (EI)
0 Unit 2 hours lecture
Introduces students to the interactions of the human species with the natural world. Covers how human society depends upon natural resources and impacts the natural environment by consuming resources and introducing waste into the air, the water, and the soil. Human population dynamics, including older adult longevity and its impacts, will be analyzed in detail, as will the political, economic, and cultural context of human decision-making about the environment. Designed for the older adult.
Grading Method: Grading Method: NC - Noncredit
R-E-99

Emeritus English

EENG 500 INTRODUCTION TO CREATIVE WRITING (EI)
0 Unit 1.5 hours lecture
Explores the basic elements of fiction and non fiction writing including audience, structure, voice, description, setting, and manuscript development with a focus on the skills necessary to grow as a writer. Primarily for the older adult. (formerly EENG 3X).
Grading Method: NC - Noncredit
R-E-99

EENG 501 ADVANCED CREATIVE WRITING (EI)
0 Unit 3 hours lecture
Recommended Preparation: EENG 500
An in-depth study of creative writing through the development of nonfiction and fiction prose. Emphasis on point of view, plot description, characterization, dialogue, narration, theme, and sensation. Primarily for the older adult. (formerly ENG 4X).
Grading Method: NC - Noncredit
R-E-99

EENG 502 NON-FICTION WRITING (EI)
0 Unit 3 hours lecture
Techniques and practices in writing nonfiction articles, essays, and biographical sketches. Primarily for the older adult. (formerly ENG 6X).
Grading Method: NC - Noncredit
R-E-99

EENG 503 FUNDAMENTALS OF CREATIVE WRITING (EI)
0 Unit 3 hours Lecture
Explores the basic elements of fiction and non fiction writing including audience, structure, voice, description, setting, and manuscript development with a focus on the skills necessary to grow as a writer. Primarily for the older adult. (formerly EENG 3X).
Grading Method: NC - Noncredit
R-E-99

EENG 504 INTERMEDIATE CREATIVE WRITING (EI)
0 Unit 3 hours lecture
Course builds upon the basic elements of fiction and non-fiction writing to promote a more in-depth study of creative writing. Students will develop point of view, plot description, characterization, dialogue, theme, narration, and prose directed toward more advanced skills. Students may learn techniques of the form by discussing their work, as well as the assigned readings, in a small group setting. Primarily for the older adult.
Grading Method: Grading Method: NC - Noncredit
R-E-99

EENG 510 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. Primarily for the older adult. (formerly ENG 30X).
Grading Method: NC - Noncredit
R-E-99

EENG 511 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. Primarily for the older adult. (formerly ENG 40XA).
Grading Method: NC - Noncredit
R-E-99

EENG 512 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. Primarily for the older adult. (formerly ENG 40XA).
Grading Method: NC - Noncredit
R-E-99

EENG 513 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. Primarily for the older adult. (formerly ENG 40XA).
Grading Method: NC - Noncredit
R-E-99

EENG 514 FILM AS LITERATURE (EI)
0 Unit 1.5 hours Lecture
Examination of film as a 20th and 21st century art form. Considers both foreign and domestic cinema with a focus on archetype, myth, symbol, characterization, and plot. Primarily for the older adult. (formerly ENG 52X).
Grading Method: NC - Noncredit
R-E-99

EENG 515 FILM ANALYSIS THROUGH LITERARY CRITIQUE (EI)
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. Primarily for the older adult. (formerly ENG 52X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Fashion

EFSH 500 QUILTING AND PATCHWORK (EI)
0 Unit 1 hour lecture 2 hours lab
Fundamental quilting/patchwork techniques such as applique, cathedral windows, crazy quilting, fabric selection, pattern drafting, piecing, reverse applique, and trapunto. Primarily for the older adult. (formerly FASH 286X).
Grading Method: NC - Noncredit
R-E-99

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 (formerly FASH 124X).
Grading Method: NC - Noncredit
R-E-99

EFSH 502 BEGINNING CLOTHING CONSTRUCTION (EI)
0 Unit 1 hour lecture 2 hours lab
This is beginning course that emphasizes the operation of a sewing machine, pattern reading, layout and garment construction. Focus on improvement of basic sewing techniques and process. Primarily for the older adult. (formerly FASH 110XA).
Grading Method: NC - Noncredit
R-E-99

EFSH 503 INTERMEDIATE CLOTHING CONSTRUCTION (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EFSH 500
Clothing construction and pattern alterations for personal wardrobe. Examine and utilize commercial patterns, selection of fabric, textures and principles of color design. Primarily for the older adult. (formerly FASH 110XB).
Grading Method: NC - Noncredit
R-E-99

EFSH 504 ADVANCED CLOTHING CONSTRUCTION (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EFSH 501
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. Primarily for the older adult. (formerly FASH 110XC).
Grading Method: NC - Noncredit
R-E-99

EFSH 505 BEGINNING CROCHETING (EI)
0 Unit 1 hour lecture 2 hours lab
Introduction to crochet. Includes color, design, types of yarns, terminology, and patterns. Crochet techniques for artistic, functional and wearable projects. Primarily for the older adult. (formerly FASH 282XA).
Grading Method: NC - Noncredit
R-E-99

EFSH 506 INTERMEDIATE CROCHETING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EFSH 504
Study of fibers used for crochet. Review of crochet pattern techniques. New stitches and methods of finishing projects, and Adjusting patterns following the gauge changes for size. Primarily for the older adult. (formerly FASH 282XB).
Grading Method: NC - Noncredit
R-E-99

EFSH 507 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. Primarily for the older adult. (formerly FASH 283XA).
Grading Method: NC - Noncredit
R-E-99

EFSH 508 INTERMEDIATE KNITTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EFSH 506
Develop knitting skills at an intermediate level. Learn new cast-on, cast-off methods, intermediate and advanced pattern combinations, and pattern adjustment. Primarily for the older adult. (formerly FASH 283XB).
Grading Method: NC - Noncredit
R-E-99

EFSH 510 ART AS FASHION (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. Primarily for the older adult. (formerly FASH 124X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Gerontology

EGRO 500 AGE-RELATED HEALTH RISK FACTORS (EI)
0 Unit 3 hours lecture
Informs students about age related risk factors contributing to health problems and disease. Primarily for the older adult. (formerly GERO 120X).
Grading Method: NC - Noncredit
R-E-99

EGRO 501 GEROPSYCHOLOGY-PERSPECTIVES ON AGING (EI)
0 Unit 2 hours lecture
This class for older adults focuses on the psychological, physiological, philosophical and social changes that accompany older adult growth and development. The perspective of a new geropsychology is presented, through the biological and social sciences; concepts about identity formation and gerotranscendence from psychology; ideas about humanity from spiritual and humanistic teachings; insights from philosophical inquiries; and research data from demographics and statistics.
Grading Method: NC - Noncredit
R-E-99

Emeritus Health

EHEA 500 CARDIOVASCULAR HEALTH FOR OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab
Through a cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 501 CARDIOVASCULAR WELLNESS FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab
Through a cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 502 CARDIOVASCULAR FITNESS FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab
Through a cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 503 CARDIOVASCULAR HEALTH AND WELLNESS FOR THE OLDER ADULT (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Through a cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 504 AQUA-CARDIO HEALTH FOR THE OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab
Through an aqua-cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 505 AQUA-CARDIO WELLNESS FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab
Through an aqua-cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 506 AQUA-CARDIO FITNESS FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab
Through an aqua-cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 507 AQUA-CARDIO HEALTH AND WELLNESS FOR THE OLDER ADULT (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Through an aqua-cardiovascular lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize cardiovascular fitness.
Grading Method: NC - Noncredit
R-E-99

EHEA 508 BALANCE AND MOBILITY FOR OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab
Through a balance and mobility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize balance and mobility.
Grading Method: NC - Noncredit
R-E-99

EHEA 509 SURVEY OF BALANCE/MOBILITY TECHNIQUES FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab
Through a balance and mobility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize balance and mobility.
Grading Method: NC - Noncredit
R-E-99

EHEA 510 PRACTICAL SKILLS OF BALANCE/MOBILITY FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab
Through a balance and mobility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize balance and mobility.
Grading Method: NC - Noncredit
R-E-99

EHEA 511 BALANCE AND MOBILITY FOR HEALTH FOR THE OLDER ADULT (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Through a balance and mobility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize balance and mobility.
Grading Method: NC - Noncredit
R-E-99

EHEA 512 BEGINNING INDEPENDENT MOVEMENT FOR OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab
Through a beginning independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize beginning independent movement techniques.
Grading Method: NC - Noncredit
R-E-99

EHEA 513 BEGINNING MOVEMENT AND HEALTH FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab
Through a beginning independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize beginning independent movement techniques.
Grading Method: NC - Noncredit
R-E-99

EHEA 514 BEGINNING MOVEMENT AND WELLNESS FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab
Through a beginning independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize beginning independent movement techniques.
Grading Method: NC - Noncredit
R-E-99

EHEA 515 BEG INDEPENDENT MOVEMENT TECHNIQUES FOR OLDER ADULTS (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Through a beginning independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize beginning independent movement techniques.
Grading Method: NC – Noncredit *R-E-99*

EHEA 516 INTERMEDIATE INDEPENDENT MOVEMENT FOR OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab

Through an intermediate independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize intermediate independent movement techniques.
Grading Method: NC - Noncredit
R-E-99

EHEA 517 INTERMEDIATE MOVEMENT AND HEALTH FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab

Through an intermediate independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize intermediate independent movement techniques.
Grading Method: NC - Noncredit
R-E-99

EHEA 518 INTERMEDIATE MOVEMENT AND WELLNESS FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab

Through an intermediate independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize intermediate independent movement techniques.
Grading Method: NC - Noncredit
R-E-99

EHEA 519 INTERMEDIATE IND MOVEMENT TECHNIQUES FOR OLDER ADULTS (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

Through an intermediate independent movement techniques lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize intermediate independent movement techniques.
Grading Method: NC - Noncredit
R-E-99

EHEA 520 MUSCLE STRENGTHENING/BODY ALIGNMENT FOR OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab

Through a muscular strength and body alignment lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness.

Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize muscular strength and body alignment.
Grading Method: NC - Noncredit
R-E-99

EHEA 521 MUSCLE DEVELOPMENT FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab

Through a muscular strength and body alignment lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize muscular strength and body alignment.
Grading Method: NC - Noncredit
R-E-99

EHEA 522 MUSCLE HLTH/BODY ALIGNMENT TECHNIQUES FOR OLDER ADULT (EI)
0 Unit 0.75 hour lecture 0.75 hour lab

Through a muscular strength and body alignment lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize muscular strength and body alignment.
Grading Method: NC - Noncredit
R-E-99

EHEA 523 MUSCULAR STRENGTH AND BODY ALIGNMENT FOR OLDER ADULTS (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

Through a muscular strength and body alignment lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize muscular strength and body alignment.
Grading Method: NC - Noncredit
R-E-99

EHEA 524 POSTURE AND BALANCE FOR OLDER ADULTS (EI)

0 Unit 1.5 hours lecture 1.5 hours lab

Through a posture and flexibility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize posture and flexibility.
Grading Method: NC - Noncredit
R-E-99

EHEA 525 POSTURE AND MOBILITY FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab
Through a posture and flexibility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize posture and flexibility.
Grading Method: NC - Noncredit
R-E-99

EHEA 526 POSTURE AND FITNESS FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab
Through a posture and flexibility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize posture and flexibility.
Grading Method: NC - Noncredit
R-E-99

EHEA 527 POSTURE AND FLEXIBILITY FOR OLDER ADULT HEALTH (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Through a posture and flexibility lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize posture and flexibility.
Grading Method: NC - Noncredit
R-E-99

EHEA 528 CONCENTRATED MOVEMENT FOR OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab
Through a focused movement lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize focused movement.
Grading Method: NC - Noncredit
R-E-99

EHEA 529 BALANCED MOVEMENT FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab
Through a focused movement lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize focused movement.
Grading Method: NC - Noncredit
R-E-99

EHEA 530 SEQUENCED MOVEMENT FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab
Through a focused movement lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize focused movement.
Grading Method: NC - Noncredit
R-E-99

EHEA 531 FOCUSED MOVEMENT FOR OLDER ADULT HEALTH (EI)
0 Unit 0.5 hour lecture 0.5 hour lab
Through a focused movement lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize focused movement.
Grading Method: NC - Noncredit
R-E-99

EHEA 532 FOCUS AND MUSCLE STRENGTH FOR OLDER ADULTS (EI)
0 Unit 1.5 hours lecture 1.5 hours lab
Through a concentration and muscle strength lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize concentration and muscle strength.
Grading Method: NC - Noncredit
R-E-99

EHEA 533 FOCUS AND FLEXIBILITY FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab
Through a concentration and muscle strength lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize concentration and muscle strength.
Grading Method: NC - Noncredit
R-E-99

EHEA 534 CONCENTRATION AND WELLNESS FOR OLDER ADULTS (EI)
0 Unit 0.75 hour lecture 0.75 hour lab

Through a concentration and muscle strength lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize concentration and muscle strength.

Grading Method: NC - Noncredit
R-E-99

EHEA 535 CONCENTRATION AND MUSCLE STRENGTH FOR OLDER ADULTS (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

Through a concentration and muscle strength lecture course with labs used to demonstrate skills primarily for the older adult, this course encourages cognitive health and physical wellness. Students will learn methods of achieving and maintaining ideal body composition, illness, and injury prevention through lectures, discussions, and demonstrations on balanced nutrition and life sustaining exercise strategies that emphasize concentration and muscle strength.

Grading Method: NC - Noncredit
R-E-99

EHEA 536 BRAIN HEALTH AND WELLNESS FOR OLDER ADULTS (EI)
0 Unit 1 hour lecture 1 hour lab

This course covers age-related brain functioning and memory-retaining practices primarily for the older adult. Focus is on anatomy and physiology of the brain, brain function, healthful living choices, memory-loss prevention, neurodegenerative diseases, and managing mental health.

Grading Method: NC - Noncredit
R-E-99

EHEA 537 BRAIN HEALTH AND CONDITIONING FOR OLDER ADULTS (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

This course covers age-related brain functioning and memory-retaining practices primarily for the older adult. Focus is on anatomy and physiology of the brain, brain function, healthful living choices, memory-loss prevention, neurodegenerative diseases, and managing mental health.

Grading Method: NC - Noncredit
R-E-99

EHSC 500 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. Primarily for the older adult. (formerly HSC 105X).

Grading Method: NC - Noncredit
R-E-99

Emeritus History

EHST 500 WESTERN CIVILIZATION SINCE 1648 (EI)
0 Unit 1 hour lecture

Surveys the nature of Western Civilization considering its development since the 17th Century to the present. Major emphasis will be placed on topics such as War, industrialism, economy, nationalism, imperialism, culture and diversity. Primarily for the older adult. (formerly HIST 205X).

Grading Method: NC - Noncredit
R-E-99

EHST 501 CONTEMPORARY MIDDLE EAST (EI)
0 Unit 1 hour 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. Primarily for the older adult. (formerly HIST 275X).

Grading Method: NC - Noncredit
R-E-99

EHST 502 CURRENT AND HISTORICAL ANALYSIS OF THE MIDDLE EAST (EI)
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. Primarily for the older adult. (formerly HIST 275X).

Grading Method: NC - Noncredit
R-E-99

EHST 503 SURVEY OF WESTERN HISTORY SINCE 1648 (EI)
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 topics such as War, industrialism, economy, nationalism, imperialism, culture and diversity. Primarily for the older adult. (formerly HIST 205X).

Grading Method: NC - Noncredit
R-E-99

EHST 504 WESTERN CIVILIZATION TO 1648 (EI)
0 Unit 2 hours lecture

Survey of the historical developments of the Western civilization from its birth to the end of the Thirty Years' War, 1648. Major emphasis will be placed on the Greek and Roman civilizations, the emergence, consolidation and decline of Medieval Europe, Humanism and Renaissance, European Exploration and colonization and the Protestant and Catholic Reformations. Designed for older adult students interested in learning the mechanisms of the ancient, medieval and pre-modern Western civilization, its strengths and weaknesses, in order to better understand the roots of the modern and contemporary developments of the West. Designed for older adult.

Grading Method: Grading Method: NC - Noncredit
R-E-99

Emeritus Humanities

EHUM 500 MODERN WORLD CULTURE:1700-PRESENT (EI)
0 Unit 2 hours lecture

The study of 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. Primarily for the older adult. (formerly HUM 204X).

Grading Method: NC - Noncredit
R-E-99

Emeritus Music

EMUS 500 FOR THE LOVE OF MUSIC (EI)
0 Unit 3 hours lecture

Introduction to music history focusing on musical periods and composers that have shaped Western musical developments. Primarily for the older adult. (formerly MUS 20X).

Grading Method: NC - Noncredit
R-E-99

EMUS 501 INTRODUCTION TO OPERA (EI)
0 Unit 3 hours lecture

Students will learn music listening skills in order to appreciate the music, and recognize the composers who have shaped western opera, such as Gluck, Mozart, Rossini, Donizetti, Bellini, Verdi, Wagner, and Puccini. Primarily for the older adult. (formerly MUS 19X).

Grading Method: NC - Noncredit
R-E-99

EMUS 502 EMERITUS INSTITUTE CONCERT CHORALE (EI)
0 Unit 1 hour lecture 1 hour lab

Course emphasizes choral singing and literature through the application of correct vocal technique. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly MUS 290X).

Grading Method: NC - Noncredit
R-E-99

EMUS 509 VOCAL AND RHYTHMIC TECHNIQUES (EI)
0 Unit 1 hour lecture 1 hour lab

Emphasizes vocal techniques, including, breath control, tone production and articulation, applied to selected music literature. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly MUS 80X).

Grading Method: NC - Noncredit
R-E-99

EMUS 510 VOICE AND RHYTHMS (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

Emphasizes vocal techniques including breath control, tone production, and articulation, applied to selected music literature. Field trips may be required to fulfill the objectives of the course.

Primarily for the older adult. (formerly MUS 80X).

Grading Method: NC - Noncredit
R-E-99

EMUS 511 CHORAL ENSEMBLE (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

Course emphasizes choral singing and literature through the application of correct vocal technique. Field trips may be required to fulfill the objectives of the course. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly MUS 290X).

Grading Method: NC - Noncredit
R-E-99

EMUS 512 MEN'S AND WOMEN'S CHORAL - BARBERSHOP (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

Choral ensemble of male and female voices specializing in the rehearsal and performance of barbershop harmony. Special attention will be given to note values, basic rhythms, ear training and diction. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly MUS 34X).

Grading Method: NC - Noncredit
R-E-99

EMUS 514 BARBERSHOP CONCERT CHORALE FOR MEN AND WOMEN (EI)
0 Unit 1 hour lecture 1 hour lab

Choral ensemble of male and female voices specializing in rehearsal and performance of barbershop harmony. Special attention will be given to note values, basic rhythms, ear training and diction. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly MUS 34X).

Grading Method: NC - Noncredit
R-E-99

EMUS 519 ENSEMBLE AND ORCHESTRA REHEARSAL AND PERFORMANCE (EI)
0 Unit 1 hour lecture 1 hour lab

Recommended Preparation: Previous instrumental training and demonstrated proficiency

Preparation, study, and performance of orchestra concert repertoire. Previous instrumental training recommended. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly MUS 295X).

Grading Method: NC - Noncredit
R-E-99

EMUS 520 REHEARSAL AND PERFORMANCE INSTRUMENTAL (EI)
0 Unit 0.5 hour lecture 0.5 hour lab

Recommended Preparation: Previous instrumental training & demonstrated proficiency

Preparation, study, and performance of orchestra concert repertoire. Previous instrumental training recommended. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly MUS 295X).

Grading Method: NC - Noncredit
R-E-99

Emeritus Philosophy

EPHL 500 INTRODUCTION TO PHILOSOPHY (EI)
0 Unit 1 hour 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. Primarily for the older adults. (formerly PHIL 230X).
Grading Method: NC - Noncredit
R-E-99

EPHL 501 HISTORY OF FREETHOUGHT IN WESTERN WORLD (EI)
0 Unit 1 hour 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. Study of deism, pantheism, agnosticism, atheism as well as multicultural religious philosophical systems and beliefs. Primarily for the older adult. (formerly PHIL 231X).
Grading Method: NC - Noncredit
R-E-99

EPHL 503 FUNDAMENTALS OF WESTERN PHILOSOPHY (EI)
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. Primarily for the older adult. (formerly PHIL 230X).
Grading Method: NC - Noncredit
R-E-99

EPHL 504 FREETHOUGHT PHILOSOPHY PAST AND PRESENT (EI)
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. Study deism, pantheism, agnosticism, atheism as well as multicultural religious philosophical systems and beliefs. Primarily for the older adult. (formerly PHIL 231X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Photography

EPHO 500 BEGINNING DIGITAL SHOW PRESENTATIONS (EI)
0 Unit 0.5 hour lecture 1 hour 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. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly PHOT 40X).
Grading Method: NC - Noncredit
R-E-99

EPHO 501 INTERMEDIATE DIGITAL SHOW PRESENTATIONS (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EPHO 500
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. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly PHOT 41X).
Grading Method: NC - Noncredit
R-E-99

EPHO 502 BEGINNING DIGITAL PHOTOGRAPHY (EI)
0 Unit 0.5 hour lecture 1 hour lab
Covers the technical aspects of using a digital camera and the importance of composition in the creation of an image. Includes still life, landscape portrait photography and field trips. Downloading, storing, organizing and sharing photographic images using software programs, and social media will be discussed. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly PHOT 50XA).
Grading Method: NC - Noncredit
R-E-99

EPHO 503 INTERMEDIATE DIGITAL PHOTOGRAPHY (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EPHO 502
Reviews technical aspects of using a digital camera, image composition, downloading, storing, organizing and editing images using software programs. Also includes portraits, low-light 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. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly PHOT 50XB).
Grading Method: NC - Noncredit
R-E-99

EPHO 504 BEGINNING COLOR PRINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EPHO 502
Digital techniques for making manipulating, enhancing color prints. Finishing prints for presentation including retouching and matting. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly PHOT 59XA).
Grading Method: NC - Noncredit
R-E-99

EPHO 505 ADVANCED COLOR PRINTING (EI)
0 Unit 1 hour lecture 2 hours lab
Recommended Preparation: EPHO 504
Advanced and innovative techniques and procedures used in color printing. Related topics of photography and depth analysis of the creative image. Field trips may be required to fulfill the

objectives of the course. Primarily for the older adult. (formerly 59XB).
Grading Method: NC - Noncredit
R-E-99

EPHO 506 FUNDAMENTALS OF DESIGN FOR DIGITAL SLIDESHOWS (EI)
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. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly PHOT 40X).
Grading Method: NC - Noncredit
R-E-99

EPHO 508 FUNDAMENTALS OF DIGITAL PHOTOGRAPHY (EI)
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, landscape, portrait photography and field trips. Downloading, storing, organizing and sharing photographic images using software programs and social media. Field trips may be required to fulfill the objectives of the course. Primarily for the older adult. (formerly PHOT 50XA).
Grading Method: NC - Noncredit
R-E-99

Emeritus Political Science

EPOL 500 CURRENT ISSUES IN GOVERNMENT (EI)
0 Unit 1 hour lecture
Exploration of current issues and events on global, national, and local levels. Problem areas include crime, economics, social services, environment, and terrorist. Primarily for the older adult. (formerly PS 214X).
Grading Method: NC - Noncredit
R-E-99

EPOL 501 CURRENT POLITICAL EVENTS AND ISSUES (EI)
0 Unit 2 hours lecture
Exploration of current issues and events on global, national, and local government levels. Problem areas include crime, economics, social services, environment, and terrorist. Primarily for the older adult. (formerly PS 214X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Spanish

ESPA 500 BEGINNING PRACTICAL SPANISH (EI)
0 Unit 2 hours lecture
Basic fundamentals of conversational Spanish. Includes reading, comprehension, speaking, and writing. Primarily for the older adult. (formerly SPAN 230X).
Grading Method: NC - Noncredit
R-E-99

ESPA 501 INTERMEDIATE PRACTICAL SPANISH (EI)
0 Unit 2 hours lecture
Recommended Preparation: ESPA 500
Further the fundamentals of communicative competence in practical Spanish. Focus is on listening, comprehension, speaking, reading, and writing. Primarily for the older adult. (formerly SPAN 31X).
Grading Method: NC - Noncredit
R-E-99

ESPA 502 ADVANCED PRACTICAL SPANISH (EI)
0 Unit 2 hours lecture
Recommended Preparation: ESPA 501
Designed for advanced students seeking to develop fluency in Spanish. The emphasis is on expression and conversation. Primarily for the older adult. (formerly SPAN 232X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Special Education

ESPS 500 BEGINNING LIPREADING AND HEARING CONSERVATION (EI)
0 Unit 3 hours lecture
Enables students to develop and practice lipreading skills necessary for social functioning. Presents information designed to help the student better understand their own hearing loss. Primarily for the older adult. (formerly SPS 145X).
Grading Method: NC - Noncredit
R-E-99

Emeritus Theater

ETHE 500 SCENE STUDY-ACTING (EI)
0 Unit 1 hour lecture 1 hour lab
Concentrates on essential skills of method acting by review of the works of major playwrights, scene development, characterization, and improvisation. Primarily for the older adult. (formerly TA 2X).
Grading Method: NC - Noncredit
R-E-99

Administration & 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

Clauss, Dan (2017)
Dean of Kinesiology and Athletics
B.S., Southeast Missouri State University
M.Ed., Western Carolina University

d'Arcy, Kim (2008)
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

Farthing, Scott (2020)
Dean, 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

Feldhus, Karima (2005)
Executive Dean of Extended Learning
B.A., University of Algiers
M.A., Ph.D., University of Kansas

Guy, Georgina (2008)
Dean, Student Equity and Special Programs
B.A., M.A., California State University, Dominguez Hills
M.S., California State University, Fullerton
M.A., PsyD., Alliant University

Hinkle, Christina (2011)
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

Loewen, Sherrie (2021)
Dean, Health Sciences and Human Services
B.A., San Diego State University
M.A., Northern Arizona University
Ph.D., University of Utah
J.D., Saratoga University School of Law

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

Oliveri, Dee (2019)
Assistant Dean, Health Sciences and Human Services/Director of Nursing
B.S., State University of New York, Binghamton
M.Ed., Ed.D., University of Phoenix

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
E.d.D, Brandman University

Stern, Elliot (2019)
President
B.S., Pre-Medicine and D.O., Michigan State University
J.D., University of Michigan School of Law

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

Wathen, Cory (2019)
Vice President for Administrative Services
B.A., University of California, Davis
M.B.A., California State University, Sacramento

Saddleback College Faculty

Abbas, Sam (2016)
Associate 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)
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

Beahm, Austin (2019)
Assistant Professor, Mathematics, Science and Engineering
B.A., M.A., California State University, Long Beach

Bear, Teresa (2011)
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)
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

Bodhanwala, Homi (2021)
Assistant Professor, Math, Science & Engineering
B.S., University of California, Irvine
M.S., California State University, Fullerton

Boratynec, Zina (2000)
Professor, Transfer, Career and Special Programs
B.A., University of California, Irvine
M.S., California State University, Long Beach

Bowles, Christina (2012)
Professor, Health Sciences and Human Services
B.S.N., California State University, Fullerton
M.S.N., California State University, Long Beach

Bowman, Donald (2012)
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)
Professor, Mathematics, Science and Engineering
B.A., University of California, Santa Barbara
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Breslin, Ann Marie (2014)
Professor, Transfer, Career and Special Programs
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Brooks, Taylor (2021)
Assistant Professor, Advanced Technology & Applied Sciences
A.A., Saddleback College

Budica, Jessica (2017)
Assistant Professor, Liberal Arts
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Caggiano, Jodi (2013)
Professor, Health Sciences and Human Services
B.S.N., California State University, Fullerton
M.S.N., California State University, Dominguez Hills
D.N.P., Western University

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

Carrillo, Bryan (2019)
Assistant Professor, Mathematics, Science and Engineering
B.A., Bates College
M.S., Ph.D., University of California, Riverside

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)
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Professor, Economic & Workforce Development and Business Science
B.A., Richard Stockton State College
M.B.A., Golden Gate University

Westphal, Karla (2001)
Professor, Mathematics, Science and Engineering
B.A., Yale University
M.S., Loyola University

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
B.A., University of Santa Cruz
M.F.A., New York State College of Ceramics, Alfred University

White-Alcover, Susan (2016)
Associate Professor, Health Sciences and Human Services
B.S.N., San Diego State University

Williams, Jake (2014)
Professor, Liberal Arts
B.A., M.A., California State University, Long Beach

Williams, Kolin (2011)
Professor, Transfer, Career and Special Programs
B.A., M.S., California State University, Sacramento

Wolff, Michele (1999)
Professor, Health Sciences and Human Services
B.S.N., Penn State University
M.S.N., California State University, Dominguez Hills

Yassine, Amina (2010)
Professor, Liberal Arts
B.A., M.A.T., University of California, Irvine

Zach, Alicia (2016)
Associate Professor, Online Education & Learning Resources
B.A., Santa Clara University
M.L.I.S., San Jose State University

Zemanek, Erika (2019)
Assistant Professor, Liberal Arts
B.A., California State University, San Bernardino

M.A., California State University, Long Beach

Zimmerman, Ray (2009)
Professor, Liberal Arts
B.A., University of Texas, Dallas
M.A., Ph.D., University of Irvine

Zoval, Jim (2008)
Professor, Mathematics, Science and Engineering
B.A., Ph.D., University of California, Irvine

Emeriti Faculty and Administrators

Abrams, Karl J. (1989-2012)
Professor Emeritus, Mathematics, Science and Engineering

Adams, Howard (1975-2009)
Professor Emeritus, Health Sciences & Human Services

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

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)
Professor Emeritus, Advanced Technology and Applied Science

Belmont, Gita (1990-2006)
Professor Emeritus, Liberal Arts and Learning Resources

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)
Professor Emeritus, Social and Behavioral Sciences

Bessette, Nancy C. (1975-2011)
Professor Emeritus, Kinesiology and Athletics

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)
Professor Emeritus, Social and Behavioral Sciences

Brenner, Cristy L. (1994-2017)
Professor Emeritus, Social and Behavioral Sciences

Brewer, Christina E. (1974-2004)
Professor Emeritus, Social and Behavioral Sciences

Brewer, Everett L. (1973-1995)
Vice President for Instruction Emeritus

Brierre-Shambrook, Maud B. (1982-2009)
Professor Emeritus, Liberal Arts and Learning Resources

Brightbill, Alvin J. (1975-2004)
Professor Emeritus, Fine Arts

Brummel, William C. (1980-2008)
Professor Emeritus, Kinesiology and Athletics

Bruno, Brenda J. (1986-2011)
Professor Emeritus, Liberal Arts and Learning Resources

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)
Professor Emeritus, Kinesiology and Athletics

Calkins, Keith D. (1980-2001)
Professor Emeritus, Kinesiology and Athletics

Carroll, Christina (1981-2011)
Professor Emeritus, Mathematics, Science and Engineering

Carter, Shirley (1977-2002)
Professor Emeritus, Social and Behavioral Sciences

Cederquist, John C. (1975-2008)
Professor Emeritus, Fine Arts

Chai, Nakyong T. (1977-1998)
Professor Emeritus, Fine Arts

Channing, Michael D. (1979-2018)
Professor Emeritus, Liberal Arts

Chin, Lem (1987-2017)
Professor Emeritus, Advanced Technology and Applied Sciences

Christensen, Carl H. (1970-1999)
Professor Emeritus, Social and Behavioral Sciences

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)
Professor Emeritus, Online Education & Learning Resources

Cogbill, Bonnie J. (1968-1996)
Professor Emeritus, Fine Arts

Cohen, Robert I. (1979-2004)
Professor Emeritus, Advanced Technology and Applied Science

Cosgrove, Robert W. (1981-2017)
Professor Emeritus, Liberal Arts

Courtright, Theresa E. (1973-1985)
Professor Emeritus, Learning Resources

Cox, Anne (1978-2017)
Professor Emeritus, Social and Behavioral Sciences

Crary, Diane (1998-2010)
Professor Emeritus, Counseling Services and Special Programs

Crary, Paul D. (1986-2010)
Professor Emeritus, Fine Arts

Croisette, Arthur F. (1969-1987)
Professor Emeritus, Business Science

Darr, Flip (1973-1999)
Professor Emeritus, PE and Athletics

De Aguero, Walter G. (1984-2011)
Professor Emeritus, Business Science

Dellota, Lois M. (1975-1998)
Professor Emeritus, Student Health Services

Denney, George T. (1969-1999)
Professor Emeritus, Liberal Arts

DeSaracho, Mariana (1991-2021)
Professor Emeritus, Counseling Services

DiLeo, David L. (1993-2014)
Professor Emeritus, Social and Behavioral Science

Doty, Robert W. (1969-1984)
Professor Emeritus, Business Science

Duquette, Janice L. (1977-2018)
Professor Emeritus, Kinesiology and Ahtletics

Edwards, Diane J. (1978-2004)
Professor Emeritus, Emeritus Institute

Elkins, Claire B. (1977-2009)
Professor Emeritus, Kinesiology and Athletics

Eschbach, Delphine M. (1972-1988)
Professor Emeritus, Health Sciences and Human Services

Espinosa, Peter J. (1980-2011)
Professor Emeritus, Counseling Services and Special Programs

Evans, E. Lloyd (1985-1999)
Professor Emeritus, Social and Behavioral Sciences

Evans, Nancy (1989-2016)
Professor Emeritus, Mathematics, Science and Engineering

Evans, Thomas D. (1981-2004)
Professor Emeritus, Advanced Technology and Applied Science

Fennell, Patrick J. (1979-2011)
Professor Emeritus, Fine Arts and Media Technology

Ferguson, Robert W. (1970-2011)
Professor Emeritus, Social and Behavioral Sciences

Fisher, Schorre' L. (1989-2004)
Professor Emeritus, Business Science

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)
Professor Emeritus, Advanced Technology and Applied Science

Friede, Petrina H. (1979-2011)
Professor Emeritus, Business Science

Friedemann, Harold (1970-1992)
Professor Emeritus, Mathematics, Science and Engineering

Fritsen, Jan (1988-2000)
Professor Emeritus, Counseling Services and Special Programs

Froehlich, Robert A. (1977-2006)
Professor Emeritus, Counseling Services and Special Programs

Gaines, Tom J. (1969-1993)
Professor Emeritus, Fine Arts

Garant, Dorothy (1990-2017)
Professor Emeritus, Kinesiology and Athletics

Garcia, Anthony M. (1977-2004)
Professor Emeritus, Liberal Arts and Learning Resources

Gershman, Barbara A. (1975-2004)
Professor Emeritus, Advanced Technology and Applied Science

Giguere, Virginia L. (1980-2011)
Professor Emeritus, Health Sciences and Human Services

Gillay, Carolyn Z. (1984-2011)
Professor Emeritus, Business Science

Gilman, Bruce (2008-2019)
Professor, Liberal Arts

Gleason, Linda (2004-2017)
Professor Emeritus, Health Sciences and Human Services

Goldberg, Patrizia (1987-2014)
Professor Emeritus, Business Science and Economic & Workforce Development

Goodman, Richard (1990-2010)
Professor Emeritus, Health Sciences and Human Services

Gordon, Wendy R. (1986-2017)
Professor Emeritus, Online Education & Learning Resources

Gritton, Margaret H. (1973-1999)
Professor Emeritus, Advanced Technology and Applied Science

Guizar, Mercedes (1999-2004)
Associate Professor Emeritus, Liberal Arts and Learning Resources

Hada, Dennis S. (1986-2010)
Professor Emeritus, Mathematics, Science and Engineering

Hagerty, Elizabeth Ann (1973-2000)
Professor Emeritus, Learning Resources

Haggerty, A. Lee (1981-2019)
Professor Emeritus, Social and Behavioral Sciences

Handa, Stephen G. (1988-2017)
Professor Emeritus, Counseling Services

Harrison, Charles R. (1976-2008)
Instructor Emeritus, Advanced Technology and Applied Science

Hartman, B. George (1968-1999)
Professor Emeritus, Kinesiology and Athletics

Hassouna, Fred (1975-1983)
Professor Emeritus, Mathematics and Engineering

Hastings, Ronald J. (1980-2010)
Professor Emeritus, Counseling Services and Special Programs

Hayes, Annette (1975-1989)
Professor Emeritus, Business Science

Heffernan, William A. (1973-2008)
Professor Emeritus, Liberal Arts and Learning Resources

Henry, V. Robert (1990-2017)
Professor Emeritus, Health Sciences and Human Services

Herron, Alinde (2005-2020)
Professor Emeritus, Advanced Technology and Applied Science

Hill III, Merton E. (2005-2014)
Professor Emeritus, Mathematics, Science and Engineering

Hines, James N. (1970-1994)
Professor Emeritus, Liberal Arts

Hodge, Kathleen O'C. (1975-2004)
Vice Chancellor Emeritus, Educational Services

Hodge, Vern M. (1976-2004)
Vice President for Student Services, Emeritus

Hodges, Jack A. (1989-2011)
Professor Emeritus, Kinesiology and Athletics

Hoffman, Barbara L. (1976-1988)
Professor Emeritus, Health Sciences and Human Services

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

Horlings, Jane E. (1990-2018)
Professor Emeritus, Mathematics, Science and Engineering

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

Kucharski, Phillis (2001-2020)
Professor, Health Sciences and Human Services

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

MacMillan, Sharon (1977-2020)
Professor Emeritus, Social and Behavioral Sciences

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

Miller-White, Sherry (1988-2018)
Professor Emeritus, Social and Behavioral Sciences

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

Moore, Larry (1999-2017)
Assistant Professor Emeritus, Economic & Workforce Development and Business Science

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

Nelson, Candy (2011)
Professor, Health Sciences and Human Services

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, D. Jeanne (1977-2020)
Professor Emeritus, Mathematics, Science and Engineering

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

White, Richard (1998-2015)
Professor Emeritus, Fine Arts and Media Technology

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

Ziehm, Carol (1999-2018)
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 CAMPUS MAP

28000 Marguerite Parkway, Mission Viejo, CA 92692 • 949.582.4500

SADDLEBACK COLLEGE

SCAN THIS QR CODE TO ACCESS OUR DIGITAL CAMPUS MAP
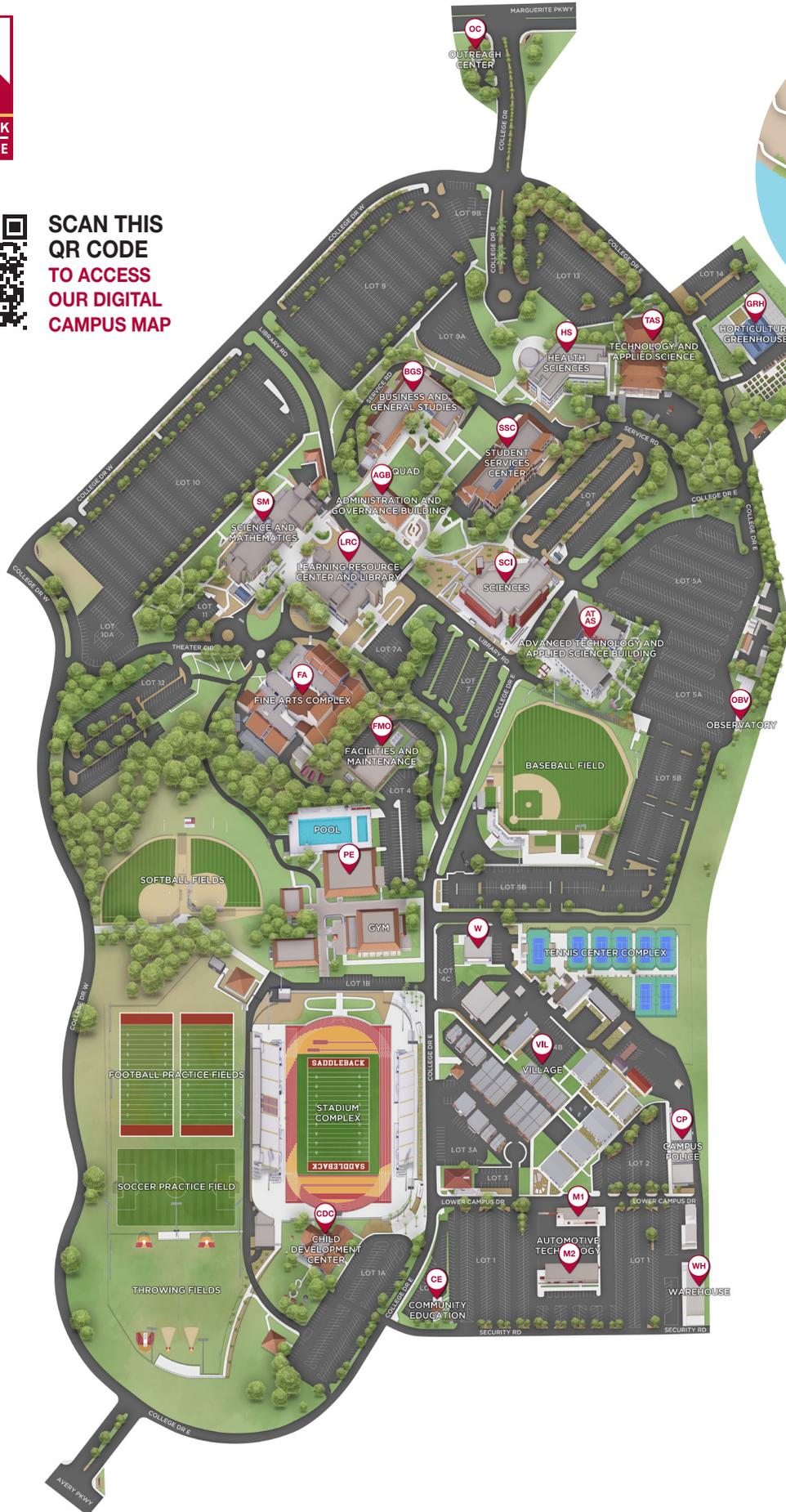
BUILDING KEY

AGB	Administration and Governance Building
ATAS	Advanced Technology and Applied Science ✶
BGS	Business and General Studies
CDC	Child Development Center
CE	Community Education
CP	Campus Police
FA	Fine Arts Complex ◆
FMO	Facilities and Maintenance
GRH	Horticulture Greenhouse
HS	Health Sciences
LRC	Learning Resource Center and Library
M1/M2	Automotive Technology
OBV	Observatory
OC	Outreach Center
PE	Physical Education
SCI	Sciences
SM	Science and Mathematics
SSC	Student Services Center
TAS	Technology and Applied Science
VIL	"Village" Classrooms
W	"W" Building (Communication Arts)
WH	Warehouse

✶ *Building opening 2022*

◆ *McKinney Theatre is located in FA 300*
Studio Theatre is located in FA 300

SADDLEBACK
C O L L E G E

28000 Marguerite Parkway, Mission Viejo, CA 92692

(949) 582-4500

www.saddleback.edu