SANTA ANA COLLEGE

CATALOG

2020-2021

CREATING OUR WORLD

DESIGN, MAKE & MOVE

MONEY MATTERS

FUTURE EDUCATORS

STEM

PEOPLE, IDEAS & CULTURE

HELPING OTHERS

BUILDING BRIDGES

SANTA ANA COLLEGE

SANTA ANA COLLEGE

2020 – 2021

CATALOG

AND ANNOUNCEMENT OF COURSES

SANTA ANA COLLEGE

1530 West 17th Street • Santa Ana, CA 92706 • 714-564-6000

SCHOOL OF CONTINUING EDUCATION

2900 West Edinger Avenue • Santa Ana, CA 92704 • 714-241-5700 • sac.edu/sce

DIGITAL MEDIA CENTER

1300 South Bristol Street • Santa Ana, CA 92706 • 714-241-5812 • ranchodmc.com

ORANGE COUNTY SHERIFF'S REGIONAL TRAINING ACADEMY

15991 Armstrong Blvd. • Tustin, CA 92782 • 714-566-9200 • sac.edu/ocr

JPTC-CN – Joint Powers Fire Training Center-CENTRAL NET

18301 Gothard St., Huntington Beach

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

2323 North Broadway • Santa Ana, CA 92706-1640 • 714-480-7300 • rsccd.edu

Santa Ana College • Santiago Canyon College

Rancho Santiago Community College District serves residents of Anaheim Hills, Orange, Santa Ana, Villa Park, and a portion of Garden Grove.

ACCREDITED BY THE WESTERN ASSOCIATION OF SCHOOLS AND COLLEGES

Santa Ana College and Santiago Canyon College are accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (10 Commercial Blvd., 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.

COLLEGE CREDIT INSTRUCTIONAL CALENDAR 2020 – 2021

FALL SEMESTER 2020

August 17-19	Faculty Projects
August 20-21	Common College Flex Days
August 24	INSTRUCTION BEGINS
September 6	Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
September 7	Labor Day – Holiday
September 11	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
September 25	Last date to file Pass/No Pass (semester-length courses)
October 9	Deadline for Degree/Certificate/Certification Petitions
November 11	Veterans Day – Holiday
November 15	Last day to drop semester-length classes with a "W" grade
Nov. 26 – 28	Thanksgiving – Holiday
December 13	INSTRUCTION ENDS
Dec. 14 – Jan 3	Holiday Break

INTERSESSION 2021

January 4	INSTRUCTION BEGINS
January 11	Last day to file Pass/No Pass
January 18	Martin Luther King's Birthday – Holiday
January 31	INSTRUCTION ENDS

SPRING SEMESTER 2021

February 1-3	Faculty Projects
February 4-5	Common College Flex Days
February 8	INSTRUCTION BEGINS
February 11	Deadline for Graduation Petition for Associate Degrees for Transfer (ADT) - only for eVerify
February 12	Lincoln's Birthday – Holiday
February 15	President's Day – Holiday
February 21	Last day to add and to drop full-term classes without "W" grade with enrollment fee refund
March 12	Last date to file Pass/No Pass (semester-length courses)
March 12	Deadline for Degree/Certificate/Certification Petitions
March 31	Cesar Chavez Day (observed)
April 5-11	Spring Recess
May 9	Last day to drop semester-length classes with "W" grade
May 31	Memorial Day – Holiday
June 3	Commencement – Santiago Canyon College
June 4	Commencement – Santa Ana College
June 6	INSTRUCTION ENDS

SUMMER SESSION 2021

June 14	INSTRUCTION BEGINS
June 25	Deadline for Graduation Petition
July 5	Independence Day – Holiday
August 8	INSTRUCTION ENDS

AUGUST 2020

S	M	T	W	T	F	S
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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

SEPTEMBER 2020

S	M	T	W	T	F	S
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27	28	29	30			

OCTOBER 2020

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NOVEMBER 2020

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DECEMBER 2020

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JANUARY 2021

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31						

FEBRUARY 2021

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28						

MARCH 2021

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APRIL 2021

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MAY 2021

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30	31					

JUNE 2021

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JULY 2021

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18	19	20	21	22	23	24
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AUGUST 2021

S	M	T	W	T	F	S
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
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CREDITS:
Editorial Content . . . . . Anh Phuong Tran
Reyes Vazquez
Monica Bustamante
Teresa Verduzco
Cover Design . . . . . Mary Law
Desktop Publishing . . . . . Nancy Smith

SANTA ANA COLLEGE PHILOSOPHY AND MISSION

Welcome to Santa Ana College!

You have made a wise investment in yourself. Your enrollment at SAC reflects your commitment to complete the requirements to earn one of our many Certificates of Achievement, Associate Degrees, transfer to a four-year university or earn a Bachelor of Science degree in Occupational Studies. This is your first act of many that will transform your life! Your decision to begin an educational journey at Santa Ana College can result in opportunities that will help you live a rich, full life. While you travel on your educational pathway, we are here to guide and help you every step of the way. We understand that you may face personal challenges that can hinder your progress and we are here to help you face and overcome these challenges. Please know that we, faculty, staff, and administrators look forward to celebrating every milestone along your educational path. You will find excellent instruction and supportive tutoring and counseling services to help you achieve your educational goals. Thank you for choosing SAC as the place to begin your journey in higher education!

– Santa Ana College Administration, Faculty and Staff

Santa Ana College Mission Statement

Santa Ana College inspires, transforms, and empowers a diverse community of learners.

Catalog Content

The Rancho Santiago Community College District and Santa Ana College have made every reasonable effort to determine that everything stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the district for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the district and the colleges. The district and the college further reserve the right to add, amend, or repeal any of their rules, regulations, policies, and procedures.

Institutional Learning Outcomes (Core Competencies)

1. Communication Skills

a. Listening and Speaking

Students will listen actively and respectfully to analyze the substance of others' comments. Students will speak in an understandable and organized fashion to explain their ideas, express their feelings, or support a conclusion.

b. Reading and Writing

Students will read effectively and analytically and will comprehend at a college level. Students will write in an organized and grammatically correct fashion to explain their feelings and support a conclusion.

2. Thinking and Reasoning

Students will identify and analyze real or potential "problems" and develop, evaluate, and test possible solutions using creative thinking, analysis and synthesis, quantitative reasoning, and/or transfer of knowledge and skills to a new context as appropriate.

a. Creative Thinking

Students will develop the skills to formulate original ideas and concepts in addition to integrating those of others in the creative process.

b. Critical Thinking

Students will think logically in solving problems; explaining their conclusions; and evaluating, supporting, or critiquing the thinking of others.

c. Ethical Reasoning

Students will demonstrate an understanding of ethical issues that will enhance their capacity for making sound judgments and decisions.

d. Quantitative Reasoning

Students will use college-level mathematical concepts and methods to understand, analyze and explain issues in quantitative terms.

3. Information Management

a. Information Competency

Students will do research at a level that is necessary to achieve personal, professional and educational success. They will use print material and technology to identify research needs, seek, access, evaluate and apply information effectively and responsibly.

b. Technology Competency

Students will use technology learning tools and technology applications at a level appropriate to achieve discipline-specific course requirements and standards. Demonstrated skills might include, but are not limited to: word processing and file management; use or development of simulations, web pages, databases; graphing calculators; etc.

4. Diversity

Students will develop individual responsibility, personal integrity, and respect for diverse peoples and cultures of the world.

a. Cultural

Students will respect and work with diverse people including those with different cultural and linguistic backgrounds and different abilities.

b. Social

Students will interact with individuals and within groups with integrity and awareness of others' opinions, feelings and values.

c. Environmental

Students will demonstrate an understanding of ethical issues that will enhance their capacity for making decisions and sound judgments about the environment.

5. Civic Responsibility

Students will take personal responsibility for becoming informed, ethical and active citizens of their community, their nation and their world.

6. Life Skills

a. Creative Expression

Students will produce artistic and creative expression.

b. Aesthetic Appreciation

Students will respond to artistic and creative expressions.

c. Personal Growth

Students will demonstrate habits of intellectual exploration, personal responsibility, and practical and physical well-being.

d. Interpersonal Skills

Students will participate effectively in teams, committees, task forces, and in other group efforts to make decisions and seek consensus.

7. Careers

Students will develop the knowledge and skills necessary to select and develop careers.

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

Accreditation

Santa Ana College is accredited by the Accrediting Commission for Community and Junior Colleges ACCJC) of the Western Association of Schools and Colleges (WASC), an institutional accrediting body recognized by the Council for Higher Education Accreditation, the U.S. Department of Education, and the Veterans Administration. The college holds membership in the Community College League of California and the American Association of Community and Junior Colleges.

In addition to the current ACCJC college-wide accreditation, specified programs at Santa Ana

College are also accredited by external accrediting bodies:

1. Automotive Technology: National Automotive Technicians Education Foundation (NATEF)
2. Basic Fire Academy - Accredited CA Firefighter I (FFI) Training Academy (OSFM). Graduates earn CA FFI Certificate of Training with IFSAC and Pro Board seals.
3. Emergency Medical Technician: Orange County Emergency Medical Services (OCEMS)
4. Fire Technology Program - Accredited as a regional Training Program (ARTP) by the CA Office of the State Fire Marshal (OSFM)
5. International Business: National Association of Small Business International Trade Educators (NASBITE)
6. Occupational Therapy Assistant: Accreditation Council for Occupational Therapy Education (ACOTE)
7. Paralegal Studies: American Bar Association (ABA)
8. Pharmacy Technology: American Society of Health-System Pharmacists (ASHP)
9. Registered Nursing: Approved by the Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing (ACEN)
10. Basic Police Academy: CA Commission on Peace Officer Standards and Training
11. Sheriff Special Officer Academy: CA Commission on Peace Officer Standards and Training
12. Correctional Services Assistant Academy: CA Standards and Training for Corrections

Documents concerning the college's accreditation, licenses, and approvals are maintained in the Office of The President of Santa Ana College. Students wishing to examine these documents may do so by contacting the Office of the President. Additional information about accreditation, including filing complaints against member institutions, can be found at: **www.accjc.org**.

Rancho Santiago Community College District

Governed locally by a seven-member Board of Trustees elected by the citizens of the district, Rancho Santiago Community College District (RSCCD) is a part of the California community college system, one of the three segments of the public post-secondary educational systems in the state.

RSCCD, located in central Orange County, encompasses 193 square miles with a population of approximately 770,000. The district's boundaries include all of the K–12 schools within the Orange and Santa Ana Unified School Districts, as well as a portion of the Garden Grove Unified School District. RSCCD's boundaries extend from the eastern portion of the city of Garden Grove, around the perimeters of Santa Ana, Orange, Villa Park, and Anaheim Hills, and east to the Riverside County line.

Enrollment in district programs for fall 2019 totaled 51,601 with 37,730 enrolled in college credit courses and 13,260 enrolled in Continuing Education. The Community Services Program serves 2,251 residents districtwide in not for credit, fee-supported classes**.**

Santa Ana College and Santiago Canyon College

Santa Ana College opened in 1915 as an upward extension of Santa Ana High School, and is the fourth oldest community college in California. Initially located on the campus of Santa Ana High School, it moved to downtown Santa Ana in 1933, and then to its current location in 1947. Santa Ana College serves the city of Santa Ana and portions of the cities of Tustin, Irvine, and Garden Grove.

Santiago Canyon College is among the newest community colleges in California and began offering classes in 1985 as the Orange Campus within the Rancho Santiago Canyon Community College District. Santiago Canyon College earned its independent accreditation in January 2000, and serves the communities of Orange, Villa Park, and Anaheim Hills.

Enrollment in Santa Ana College programs during the Fall of 2019 totaled 35,196 with 26,103 students in college credit courses and 9,093 in classes for Continuing Education students.

The Community serves another 1,431 residents in fee-based not for credit classes.

Santa Ana College offers 253 degrees and certificates in credit programs that prepare students for transfer to 4-year universities or careers. In addition, over 1,000 classes are offered to students in a variety of noncredit programs including 37 certificates and an Adult High School Diploma program in Continuing Education programs.

District Facilities

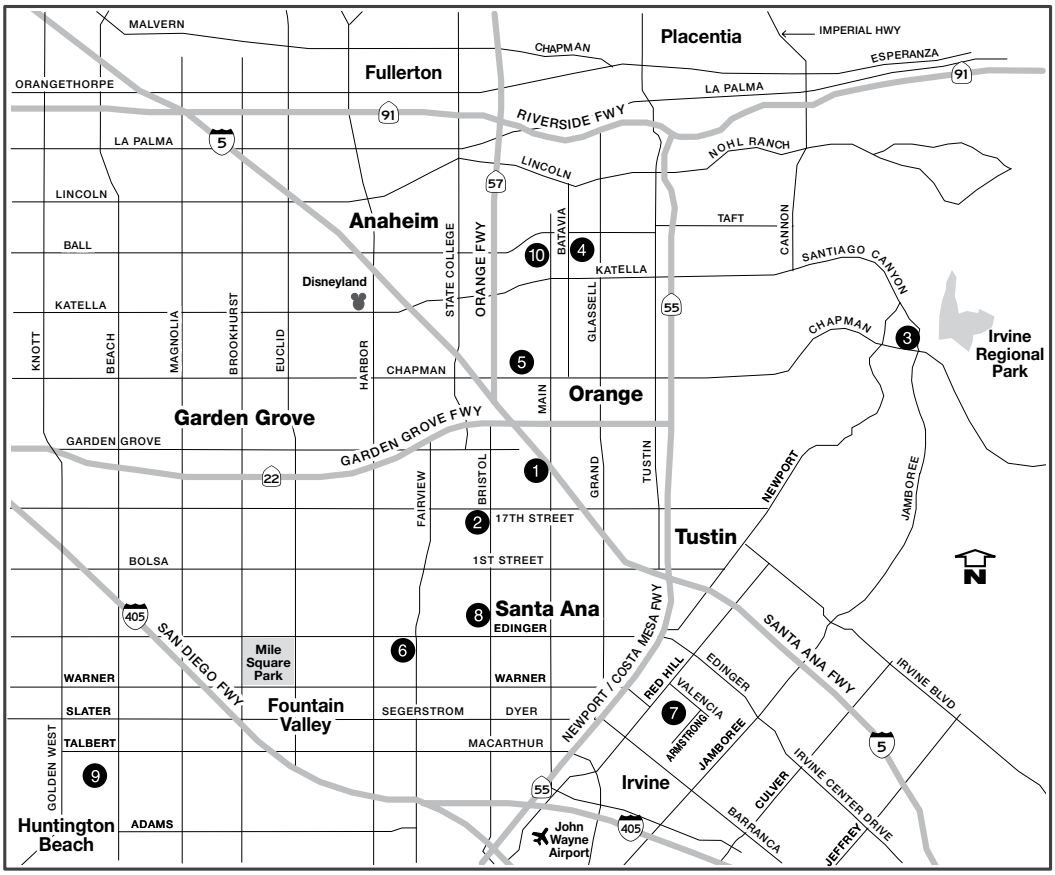
Santa Ana College is located on approximately 65 acres at 1530 W. 17th Street in Santa Ana. The college was first opened in 1915 as an upward extension of Santa Ana High School. It is the fourth oldest community college in California. Located first on the high school campus, the college was moved to downtown Santa Ana and then to the present site in 1947. Present day market value of Santa Ana College is estimated at more than $125 million dollars.

Santiago Canyon College is situated on 82 acres at 8045 E. Chapman Avenue in Orange. It opened its first phase of classrooms in fall 1985 under the name of the Orange Campus of Rancho Santiago College. The Child Development Center opened in fall 1991 to provide childcare services.

Centennial Education Center in Santa Ana and the Santiago Canyon College Orange Education Center house the college's extensive Continuing Education programs, which provide high school diplomas, English as a Second Language and older adults courses.

Opportunity

The Rancho Santiago Community College District provides opportunities for the pursuit of excellence through educational programs and services for local residents. The purpose of these programs and services is to enhance the quality of human life by providing public access to college education. A significant number of classes are scheduled off-campus each semester in order to enhance accessibility to students. The map indicates the locations of the major instructional sites within the district.



KEY TO LOCATIONS

1. RSCCD District Office
   2323 N. Broadway, Santa Ana
2. Santa Ana College
   1530 W. 17th St., Santa Ana
3. Santiago Canyon College
   8045 E. Chapman Ave., Orange
4. Orange Education Center
   1465 N. Batavia St., Orange
5. OEC Provisional Education Facility
   1937 W. Chapman Ave., 2nd Floor, Orange
6. Centennial Education Center
   2900 W. Edinger Ave., Santa Ana
7. Santa Ana College – Orange County Sheriff's Regional Training Academy
   15991 Armstrong Blvd., Tustin
8. Digital Media Center
   1300 S. Bristol St., Santa Ana
9. Joint Powers Fire Training Center
   18301 Gothard St., Huntington Beach
10. College and Workforce Preparation Center
    1572 N. Main St., Orange

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Project Managers . . . . . .Allison Coburn, Joe Melendez

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. . . . . .Dane Clacken
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. . . . . Michael Hoang

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Lieutenant–Santiago Canyon College. . . . . .Manny Pacheco
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. . . . . Leila Mozaffari

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Executive Director, Industry Sector Engagement & Career Tech Ed
. . . . . .Vacant
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Manager–Publications and Electronic Media . . . . . .Dean Hopkins

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Title IX . . . . . Jean Estevez
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Coordinator – Community Services . . . . . Lithia Williams

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Coordinator–Dual Enrollment . . . . . Basti Lopez De La Cruz
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Business Applications and Technology

Chair . . . . . Adam Morgan

Computer Science

Chair . . . . . James Hester

Engineering

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Chair . . . . . Gabriel Shweiri

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High School Articulation - CTE Transitions Coordinator
. . . . . Raquel Requena Ramirez
Career Education Counselor . . . . . Daniel Peraza

Fine and Performing Arts Division

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Counselor. . . . . Ana Meckes

Art

Chair . . . . . Phillip Marquez

Dance

Chair . . . . . Heather Gillette

Communication Studies

Chair . . . . . Lance Lockwood

Communications and Media Studies

Chair . . . . . Charles Little

Music

Chair . . . . . Brian Kehlenbach, D.M.A.

TV/Video Communications

Chair . . . . . Michael Taylor

Theatre Arts

Chair . . . . . Chris Cannon

Kinesiology, Health and Athletics Division

Dean . . . . . R. Douglas Manning, Ph.D.
Athletic Director . . . . . Mary Hegarty
Sports Information Coordinator–Public Affairs. . . . . Cammie Lewis
Chair . . . . . Brian Sos, Ph.D.
Counselors . . . . . Daniel Peraza, Jeff Cutkamp, Harvey Chew
Head Coach – Baseball . . . . . Tom Nilles
Head Coach – Basketball-Men. . . . . David Breig
Head Coach – Basketball-Women . . . . . Flo Luppani
Head Coach – Cross Country-Men & Women. . . . . Miriam Mitzel
Head Coach – Football . . . . . Adam Nyssen
Head Coach – Soccer-Men . . . . . Jose Vasquez
Head Coach – Soccer-Women . . . . . Jaymie Baquero
Head Coach – Softball . . . . . Marissa Ross
Head Coach – Swimming-Men & Women . . . . . Vacant
Head Coach – Track and Field -Men & Women . . . . . Miriam Mitzel
Head Coach – Volleyball-Women . . . . . Troy Abbey
Head Coach – Water Polo-Men & Women . . . . . Vacant
Head Coach – Wrestling . . . . . Vince Silva

Humanities and Social Sciences Division

Interim Dean . . . . . Javier Galván, Ph.D.
Counselor. . . . . Rey Robledo

American Sign Language

Chair . . . . . Monica Collins

Anthropology/Sociology/Women's Studies

Chair . . . . . Mario Robertson

Economics/Geography

Chair . . . . . Bill Courter

English

Chair . . . . . Ashly Bootman

EMLS

Chair . . . . . Dalva Dwyer

Ethnic Studies

Chair . . . . . Rodrigo Valles

History

Chair . . . . . Moises Medina

Honors Transfer Program

Coordinator . . . . . Kathy Patterson

Learning Center

Coordinator . . . . . Kathy Walczak

Modern Languages

Chair . . . . . Martha Guerrero-Phlaum, Ph.D.

Philosophy

Chair . . . . . Zachary Fish, Ph.D.

Political Science

Chair . . . . . Philippe Andrade, Ph.D.

Psychology

Chair . . . . . Ricardo Castillo

Reading

Chair . . . . . Molly Colunga

Human Services and Technology Division

Dean . . . . . Larisa Sergeyeva Ed.D.
Counselor. . . . . Reina Sanabria

Automotive Technology/Diesel/Welding
Chair . . . . . J. Marty Rudd
Child Development And Education Studies
Co-Chairs . . . . . Mary Funaoka, Ed.D., Michelle Hardy
Criminal Justice
Chair . . . . . Andy Gonis, Ph.D.
Criminal Justice Academies
Associate Dean . . . . . Timothy Winchell, Ph.D.
Director, CJA Instruction . . . . . Brad Virgoe
Fashion Design and Merchandising
Chair . . . . . Kyla Benson
Fire Technology
Associate Dean . . . . . Vacant
Director, Fire Instruction . . . . . Vacant
Coordinator–Fitness Program . . . . . Kris Ross, Terri Wann
Chair . . . . . Suzanne Freeman
Manufacturing Technology
Chair . . . . . Nick Singh
Media Systems
Associate Dean . . . . . Vacant
Lead, Media Systems . . . . . John Tran
Nutrition and Food
Chair . . . . . Sarah Mathot
Occupational Therapy Assistant/Occupational Studies
Coordinator . . . . . Dawn Mckenna-Sallade
Pharmacy Technology
Chair . . . . . John Ross, Jr.
Quick Center
Dean . . . . . Vacant
Lead Publications Assistant. . . . . Connie Jimenez
Speech-Language Pathology Assistant
Coordinator . . . . . Monica Zarske
Library Division
Counselor. . . . . Vacant
Chair–Library . . . . . Luis Pedroza, Stacy Russo
Chair–Library Technology Program . . . . . Stacy Russo
Science, Mathematics, and Health Sciences Division
Dean . . . . . Saeid Eidgahy, Ph.D.
Counselor. . . . . Cathie Shaffer, Shannon Muir
Biology
Co-Chairs. . . . . Kimo Morris, Ph.D., Patty Oertel, Ph.D.
Chemistry
Co-Chairs. . . . . Josh Mandir, Ph.D.
Stacey Littlejohn
Health Sciences/Nursing Associate Dean/Director . . . . . Vacant
Assistant Directors . . . . . Dale Mixer, Mary Steckler
Facilitator–EMT . . . . . Patrick Dibb
Chair . . . . . Dale Mixer
Mathematics
Co-Chairs. . . . . Dahlia Vu, Janet Lechuga, Rachel Lui
Medical Assistant
Chair . . . . . Catherine Emley
Physical Science
Co-Chairs. . . . . Daniel Horenstein
Phil Hughes
Student Services
Vice President. . . . . Vaniethia Hubbard, Ed.D.
Admissions and Records
Dean . . . . . Mark Liang, J.D.
Registrar . . . . . Christopher Truong
English Language Academy . . . . . Carmelita Eustaquio
International Student Office . . . . . Mark Liang, J.D.
Counseling Division
Dean . . . . . Maria Dela Cruz, Ph.D.
Associate Dean, Counseling . . . . . Armando Soto,Ph.D.
Co-Chairs. . . . . Thu Nguyen, Rey Robledo, Ana Meckes
Articulation Officer . . . . . Paula Canzona
Counselor/Coordinator–Mesa . . . . . Cathie Shaffer
Counselor/Coordinator–Puente . . . . . Reina Sanabria
Counselor/Coordinator–Teacher Education . . . . . Steve Bautista
Counselor/Coordinator–Transfer Center . . . . . Martha Vargas
Counselor/Coordinator–U-Link . . . . . Rochelle Zook
Career/Job Resource Center . . . . . Sandy Morris
Counselor/Coordinator–Assessment . . . . . Maria Aguilar Beltran
Service Learning Center Office . . . . . Sandy Morris
Disability Services (DSPS)
Associate Dean . . . . . Veronica Oforlea, Ed.D.
Adaptive Kinesiology . . . . . Brian Sos, Ph.D.
Alternative Media . . . . . Angela Tran
Deaf & Hard of Hearing Services . . . . . Ruth Rodriguez
Learning Disability Specialist . . . . . Louise Janus
Learning Disability Specialist . . . . . Mark Turner
EOPS/CARE and CalWORKs
Associate Dean . . . . . Christine Leon
Counselor/Coordinator–Care/Calworks Programs . . . . . Ann Lockhart
Coordinator–EOPS Resource Center. . . . . Gabriela Sanchez
Financial Aid
Associate Dean . . . . . Robert Manson
Student Placement . . . . . Denise Scolaro
Health & Wellness Center
Health Center Coordinator . . . . . Rebecca Barnard, Dnp
Mental Health Services . . . . . Jill Kapil, Psy.D.
Student Affairs
Dean . . . . . Alicia Kruizenga
Associate Dean–Student Development. . . . . Jennifer De La Rosa
Director–Office Of School Community Partnerships
. . . . . Alicia Kruizenga
Coordinator–SSSP/Upward Bound . . . . . Vacant
Coordinator–Student Outreach . . . . . Daniel Marquez
Director–Talent Search. . . . . Rosio Becerra
Director–Veterans Upward Bound, Veterans Student Support Services
and Veterans Resource Center . . . . . Brenda Estrada, Ed.D.
Counselor/Coordinator–Guardian Scholars . . . . . Sylvia Sanchez
Continuing Education
Vice President. . . . . James Kennedy, Ed.D.
Dean–Instruction/Student Services . . . . . Stephanie Paramore
Dean–Instruction/Student Services . . . . . Vacant
Dean–Instruction/Student Services . . . . . Christine Kosko
Director–Special Programs . . . . . Lorena Chavez
Registrar . . . . . Phuong Nguyen
Adult Basic Education/GED Chair. . . . . Adrianna Gonzalez
Adult Secondary Education (ASE) Chair . . . . . Carrie Patton
Career Education Chair . . . . . Osiel R. Madrigal, Ed.D.
Counseling Chair. . . . . Patty Siguenza
English as a Second Language Co-Chairs . . . . . Merari Weber, Ed.D.,
Jose Lopez Mercedes

This chart reflects the RSCCD organization as of June 2020

POLICIES

Nondiscrimination Policy

The Rancho Santiago Community College District is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities.

The District, and each individual who represents the District, shall provide access to its services, classes, and programs without regard to national origin, religion, age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, or military and veteran status, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics.

The Chancellor shall establish administrative procedures that ensure all members of the college community can present complaints regarding alleged violations of this policy and have their complaints heard in accordance with the Title 5 and Title IX regulations and those of other agencies that administer state and federal laws regarding nondiscrimination.

No District funds shall ever be used for membership, or for any participation involving financial payment or contribution on behalf of the District or any individual employed by or associated with it, to any private organization whose membership practices are discriminatory on the basis of national origin, religion, age, gender, gender identity, gender expression, race, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, or military and veteran status, or because he or she is perceived to have one or more of the foregoing characteristics, or because of his or her association with a person or group with one or more of these actual or perceived characteristics. Inquiries regarding compliance and/or grievance procedures may be directed to District's Title IX Coordinator and/or Section 504/ADA Coordinator.

RSCCD Section 504/ADA Coordinator: Tracie Green,
2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489.
RSCCD Title IX Coordinator: Jean Estevez,
2323 N. Broadway, Santa Ana, CA 92706, 714-480-7404.
SAC Deputy Title IX Coordinator: Jennifer De La Rosa,
1530 W 17th, Santa Ana, CA. 92706, 714-564-6212.

Política de No Discriminación

El Distrito está comprometido a ofrecer la igualdad en oportunidades para programas educativos, empleos, y a todo acceso a los programas institucionales y actividades.

El Distrito, y cada persona que representa al Distrito, debe proveer acceso a sus servicios, clases y programas sin importar el lugar de nacimiento, religión, edad, sexo, identidad de género, expresión del género, raza o etnicidad, color, condición médica, información de genética, descendencia familiar, orientación sexual, estado civil, incapacidad física o mental, embarazo, categoría militar o de veterano, o por creer que él o ella tiene una o más de las características mencionadas, o en base a estar relacionado con una persona o grupo que se cree tenga algunas de estas características.

El Canciller debe establecer procedimientos administrativos para asegurarse que todos los miembros de la comunidad del colegio puedan presentar quejas sobre supuestas violaciones a esta política y que sus quejas sean escuchadas de acuerdo a los reglamentos señalados en el Título 5 y por aquellos de otras agencias que administran las leyes estatales y federales sobre la no discriminación.

Ningún fondo del Distrito debe ser utilizado para la membrecía, o para la participación incluyendo pagos financieros o contribuciones hechas a organizaciones privadas de parte del Distrito o de cualquier individuo empleado por el Distrito o con asociación, cuyas prácticas de membrecía son discriminatorias en base a lugar de nacimiento, religión, edad, sexo, identidad de género, expresión del género, raza, color, condición médica, información de genética, descendencia familiar, orientación sexual, estado civil, incapacidad física o mental, embarazo, categoría militar o de veterano, o por creer que él o ella tiene una o más de las características mencionadas, o en base a estar relacionado con una persona o grupo que se cree tenga algunas de estas características. Las consultas relacionadas con los procedimientos de cumplimiento y/o queja pueden dirigirse al Coordinador del Título IX del Distrito y/o al Coordinador de la Sección 504/ADA.

RSCCD Sección 504/ADA Coordinadora: Tracie Green, 2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489.
RSCCD Título IX Coordinador: Jean Estévez, 2323 N. Broadway, Santa Ana, CA 92706, 714-480-7404.
SAC Título IX Coordinador: Jennifer De LA Rosa, 1530 W 17th, Santa Ana, CA. 92706, 714-564-6212.

Chính Sách Không Phân Biệt Đối Xử

Các Rancho Santiago Community College District cam kết cơ hội bình đẳng trong các chương trình giáo dục, việc làm, và tất cả các quyền truy cập vào các chương trình và các hoạt động tổ chức. Học khu, và mỗi cá nhân đại diện cho học khu, sẽ cung cấp quyền truy cập vào các dịch vụ, các lớp và chương trình của mình mà không liên quan đến nguồn gốc quốc gia, tôn giáo, tuổi tác, giới tính, bản sắc giới tính, biểu hiện giới tính, chủng tộc hoặc dân tộc, màu da, tình trạng y tế, thông tin di truyền, tổ tiên, khuynh hướng tình dục, tình trạng hôn nhân, Khuyết tật về thể chất hoặc tinh thần, mang thai, hoặc quân đội và tình trạng cựu chiến binh, hoặc vì người đó được coi là có một hoặc nhiều đặc điểm trên thực tế Hiệu trưởng sẽ thiết lập thủ tục hành chính đảm bảo tất cả các thành viên của cộng đồng đại học có thể trình bày các khiếu nại liên quan đến các vi phạm bị cáo buộc của chính sách này và khiếu nại của họ được nghe theo quy định của tiêu đề 5 và Tiêu đề IX và các cơ quan khác quản lý luật tiểu bang và liên bang về không phân biệt đối xử. Không bao giờ được sử dụng cho các thành viên, hoặc cho bất kỳ sự tham gia liên quan đến thanh toán tài chính hoặc đóng góp thay mặt cho quận hoặc bất kỳ cá nhân làm việc hoặc liên kết với nó, cho bất kỳ tổ chức riêng tư có thực hành thành viên là phân biệt đối xử trên cơ sở nguồn gốc quốc gia, tôn giáo, tuổi tác, giới tính, biểu hiện giới tính, chủng tộc, màu da, điều kiện y tế, thông tin di truyền, tổ tiên, khuynh hướng tình dục, tình trạng hôn nhân, Khuyết tật về thể chất hoặc tinh thần, mang thai, hoặc quân đội và tình trạng cựu chiến binh, hoặc vì người đó được coi là có một hoặc nhiều đặc điểm nói trên, hoặc vì sự liên kết của mình với Các yêu cầu liên quan đến các thủ tục tuân thủ và/hoặc khiếu kiện có thể được chuyển đến điều phối viên tiêu đề IX của học khu và/hoặc điều phối viên mục 504/ADA.

RSCCD phần 504/ADA điều phối viên: Tracie Green,
2323 N. Broadway, Santa Ana, CA 92706, 714-480-7489
RSCCD tiêu đề IX điều phối viên: Jean Estevez,
2323 N. Broadway, Santa Ana, CA 92706, 714-480-7404
SAC phó tiêu đề IX điều phối viên Jennifer De LA Rosa,
1530 W 17th, Santa Ana, CA. 92706, 714-564-6212

Academic Freedom Policy

The teacher should be free to think and to express ideas, free to select and employ materials and methods of instruction, free from undue pressures of authority, and free to act within his/her professional group. Such freedom should be used judiciously and prudently to the end that it promotes the free exercise of intelligence and student learning. Academic freedom is not an absolute. It must be exercised within the law and the basic ethical responsibilities of the teaching profession. Those responsibilities include:

1. An understanding of our democratic tradition and its methods.
2. A concern for the welfare, growth, maturity, and development of students.
3. The method of scholarship.
4. Application of good taste and judgment in selecting and employing materials and methods of instruction.

(BP4201 Faculty)

Santa Ana College Rates of Student Progress Student Right-To-Know Act

The rates below are placed here in accordance with the federally mandated Student Right–to–Know Act

Student Right-to-Know Rates for Fall 2013 Cohort
Completion Rate: 27.55 %
Transfer Rate: 7.99 %

In compliance with the Student Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of our college district to make available its completion and transfer rates to all current and

prospective students. Beginning in Fall 2013, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a six year period. Their completion and transfer rates are listed above. These rates do not represent the success rates of the entire student population at the College nor do they account for student outcomes occurring after this six year tracking period.

Based upon the cohort defined above, a Completer is a student who attained a certificate or degree or became 'transfer prepared' during a six year period, from Fall 2013 to Spring 2019. 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 an eleven semester period, from Spring 2014 to Spring 2019, are transfer students.

Student Consumer Information Right-To-Know Disclosure Information

Federal regulations require all campuses to provide specified information to prospective and current students, staff and the general public. Listed below are those items that must be available for review per federal regulation.

The federal Higher Education Act, the federal Equity in Athletics Disclosure Act (EADA), and regulatory guidance provided in the Code of Federal Regulations (CFR) require direct individual notices of prescribed information to certain target audiences including prospective students; currently enrolled students; current employees; parents, coaches and counselors of prospective student athletes; and the general public. Disclosures are to include crime/security statistics, student completion/graduation rates, FERPA privacy/security rights, financial aid program information, and gender-specific information on athletic participation and financial support.

Family Education Rights and Privacy

As required under the provisions of the Family Education Rights and Privacy Act of 1974, the Rancho Santiago Community College District will make public without student consent only certain directory information. This information consists of the following: a student's name; city of residence; major field; participation in officially recognized activities and sports; weight, height, and age if a member of an athletic team; dates of attendance; degree and awards received; and the most recent previous educational institution or agency attended by the student.

A student may request the Admissions and Records Office to withhold this information. Such request must be in writing and submitted each semester.

F.E.R.P.A. Family Education Rights and Privacy Notification

The Family Education Rights and Privacy Act of 1974 provides colleges the right to consent to disclose personally identifiable information contained in the student's education records to third party vendors who are identified as School Officials and who have legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his/her professional responsibility.

A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including district safety personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees, or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his/her tasks.

Santa Ana College contracts with the following School Officials:

- Auditors (Vicenti-Lloyd-Stutzman)
- CCCApply (Unicon)
- Credentials (Online transcript request)
- ECS Imaging (optical imaging)
- Ellucian Colleague
- Image Now (optical imaging)
- Medpro and Quest (Health Center)
- National Student Clearinghouse
- SARS (Counseling Center)
- Xerox

Sexual Harassment, Sexual Misconduct Intimate Partner Violence, and Stalking

Various federal and state law imposes obligations for the District to addresses and prohibit acts of sexual harassment, sexual misconduct, stalking, or domestic violence and dating violence ("intimate partner violence) and stalking. Any sexual misconduct or physical abuse as defined by California state and federal law, whether committed by an employee, student, or member of the public, that occurs on or off district property is a may be violation of district policies and procedures, and is subject to all applicable punishment, including criminal procedures, civil litigation and employee or student discipline procedures. Students may face discipline at the District, up to and including suspension or expulsion. Employees may face sanctions up to and including dismissal from employment, pursuant to established policies and provisions of applicable collective bargaining unit agreements. Students, faculty, and staff who report sexual harassment, sexual misconduct, intimate partner violence, or stalking ("prohibited conduct") shall be treated with dignity and provided comprehensive assistance.

The district encourages Complainants (those individuals reporting incidents of prohibited conduct) of sexual misconduct, intimate partner violence or stalking to talk to someone about what happened - so they can get the support they need, and so the District can respond appropriately. The District has established administrative procedures that ensure that students, faculty, and staff who are directly impacted by prohibited conduct receive appropriate information and treatment, and that educational information about preventing sexual violence is provided and publicized as required by law (please see Administrative Regulation 3540 and Interim Administrative Regulation 3425 for complete procedures).

Under California law, any health practitioner employed in a health facility, clinic, physician's office, or local or state public health department or clinic is required to make a report to local law enforcement if they provide medical services for a physical condition to a patient/Complainant who they know or reasonably suspects is suffering from (1) a wound or physical injury inflicted by a firearm; or (2) any wound or other physical injury inflicted upon a Complainant where the injury is the result of assaultive or abusive conduct (including sexual misconduct, domestic violence, and dating violence). This exception does not apply to sexual assault and domestic violence counselors and advocates. Health care practitioners should explain this limited exception to Complainants, if applicable.

Additionally, under California law, physicians, psychotherapists, professional counselors, licensed clinical social workers, clergy, and sexual assault and domestic violence counselors and advocates are mandatory child abuse and neglect reporters, and are required to report incidents involving Complainants under 18 years of age to local law enforcement. These professionals will explain this limited exception to Complainants, if applicable. Finally, some or all of these professionals may also have reporting obligations under California law to (1) local law enforcement in cases involving threats of immediate or imminent harm to self or others where disclosure of the information is necessary to prevent the threatened danger; (2) to the court if compelled by court order or subpoena in a criminal proceeding related to the sexual violence incident. If applicable, these professionals will explain this limited exception to Complainants.

The use of alcohol or drugs never makes the Complainant at fault for reports of misconduct, intimate partner violence or stalking; therefore, Complainants should not be deterred from reporting incidents out of a concern that they might be disciplined for related violations of drug or alcohol policies. Except in extreme circumstances, Complainants shall not be subject to discipline for related violations of the Standards of Student Conduct. Santa Ana College has the resources to assist and refer students who experienced sexual misconduct, dating or domestic violence, and stalking. Immediate care and confidential counseling can be provided by the Health and Wellness Center, in The Village, VL-211or call (714) 564-6216. When the Health and Wellness Center is closed, contact Campus Safety and Security (not a confidential resource) directly in the X building or call (714) 628-6330. If you have

questions regarding an allegation, specific behavior or if you would like to discuss a concern with an administrator, please contact a member of the Title IX team below.

Jean Pryor Estevez, Title IX Coordinator
Rancho Santiago Community College District
2323 N. Broadway, Santa Ana, California 92706-1640
Email: **Estevez_jean@rsccd.edu**
Phone: 714-480-7404
Web: **www.rsccd.edu/titleix**

Jennifer De La Rosa, Deputy Title IX Coordinator
Santa Ana College
1530 W 17th, Santa Ana, CA. 92706
Email: **de_la_rosa_jennifer@sac.edu**
Phone: 714-564-6212

Any individual can submit a report by using the following link:
www.rsccd.edu/incidentreportingform
Applicable regulations, resources, and additional information can be found at **www.rsccd.edu/titleix or www.rsccd.edu/civilrights**

Additional off-campus resources can be found below:
Waymakers: 949-831-9110
waymakersoc.org
Human Options: 1-877-854-3594
humanoptions.org
Supporting Survivors: 714-517-6100
ochealthinfo.com/bhs/services/support/ss
Laura's House: 866-498-1511
laurashouse.org
National Suicide Prevention Lifeline: 1-800-273-8255
suicidepreventionlifeline.org
Rape, Abuse & Incest National Network: 1-800-656-HOPE
hotline.rainn.org/online

Individuals may report to the Title IX Team, who will provide written and verbal information regarding applicable District complaint procedures for investigating and addressing the incident. The Title IX Team will also provide information regarding resources available to Complainants, as well as information regarding their rights and options. Furthermore, making a report means telling a responsible employee what happened—in person, by telephone, in writing, or by email. At the time a report is made, a reporting party does not have to request any particular course of action, nor does a reporting party need to know how to label what happened. Choosing to make a report, and deciding how to proceed after making the report, can be a process that unfolds over time.
Many resources and options are available on and off campus including confidential and privileged communication options.
The Title IX Team is available to explain and discuss rights to file a criminal complaint and to assist in doing so; the District's relevant complaint process, and rights to receive assistance with that process, including the investigation and hearing process; how confidentiality is handled; available resources, both on and off campus; and other related matters. When an individual tells the Title IX Team or another non-confidential District employee about a sexual misconduct, dating violence, domestic violence, or stalking incident, or prohibited conduct, the Complainant has the right to expect the District to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. In all cases, the District strongly encourages Complainants to report prohibited conduct directly to the Title IX Team.
To the extent possible, information reported to District employees will be kept private and shared only with individuals responsible for handling the District's response to the incident. The District will protect the privacy of individuals involved in a prohibited conduct incident except as otherwise required by law or District policy as required by state or federal law. A prohibited conduct report may result in the gathering of extremely sensitive information about individuals in the campus community. If a Complainant requests of the Title IX Team or another District employee that their identity remain completely confidential, the Title IX Team will explain that the District cannot always honor that request and guarantee complete confidentiality. If a Complainant wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the District must weigh that request against the District's obligation to provide a safe, non-discriminatory environment for all students, employees and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the District has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a Complainant's identity, the District's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. The Title IX Team will inform the Complainant of the initiation of an investigation prior to starting an investigation and will, to the extent possible, only share information with people responsible for handling the District's response to the incident.
The Title IX Team will remain mindful of the Complainant's well-being, and will take ongoing steps to protect the Complainant from retaliation or harm, and work with the Complainant to create a safety plan. Retaliation against the victim, whether by students, employees or third parties, will not be tolerated. The District and Title IX Team will also:
Provide interim remedies requested by the Complainant, if they are reasonable, regardless of whether the Complainant chooses to report to campus or local police;
Assist both Parties in accessing available advocacy, academic support, counseling, disability, medical/health or mental health services, and legal assistance both on and off campus;
Provide security and support for both Parties, which could include issuing a no-contact order, helping arrange a change of campus-based working arrangements or course schedules or adjustments for assignments, tests, or work duties; and
Inform Complainants of their right to report a crime to District or local police – and provide Complainants with assistance if desired.
The District will not require a Complainant to participate in any investigation or disciplinary proceeding if the Complainant does not wish to participate. The District will not generally notify parents or legal guardians of a sexual misconduct, dating violence, domestic violence, or stalking report unless the Complainant is under 18 years old or the Complainant provides the District with written permission to do so. Under California law, and pursuant to District policy, many District employees, including the Title IX Coordinator, are mandatory child abuse and neglect reporters and should explain to Complainants under 18 years of age that they are required to report the incident to the police. However, the identity of the person who reports and the report itself are confidential and disclosed only among appropriate agencies.

Harassment and Discrimination

Board Policy 3430 (BP 3430) and Interim Administrative Regulation 3425 prohibits all forms of harassment that are contrary to basic standards of conduct between individuals and are prohibited by state and federal law, as well as this policy, and will not be tolerated. Administrative Regulation 3435 details the procedures for the resolution of such complaints (**rsccd.edu/bpar**). This policy is widely published and publicized to all employees and students, including incoming employees and students. The District is committed to providing an academic and work environment that respects the dignity of individuals and groups. The District shall be free of sexual harassment and all forms of sexual intimidation and exploitation, including acts of sexual misconduct, dating or domestic violence, and stalking. The District shall also be free of other unlawful harassment or discrimination, including that which is based on any of the following statuses: race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, or sexual orientation of any person, or military and veteran status, or because he or she is perceived to have one or more of the foregoing characteristics. The Title IX Coordinator is responsible for resolving reports of sexual misconduct, sex or gender-

based discrimination or harassment, dating or domestic violence, and stalking. To report an incident or file a complaint, please contact:

Jean Pryor Estevez
Title IX Coordinator
Rancho Santiago Community College District
2323 N. Broadway, Santa Ana, California 92706-1640
Email: **Estevez_jean@rsccd.edu**
Phone: 714-480-7404
Web: **www.rsccd.edu/titleix**

Jennifer De La Rosa
Deputy Title IX Coordinator
Santa Ana College
1530 W 17th, Santa Ana, CA. 92706
Email: **de_la_rosa_jennifer@sac.edu**
Phone: 714-564-6212

All students, staff and faculty may elect to follow formal complaint procedures. Formal complaints of unlawful discrimination or harassment must be filed in writing on a form prescribed by the State Chancellor. The required form may be found here: **www.rsccd.edu/incidentreportingform** Upon receiving a formal written complaint, the District will determine whether the complaint has met the necessary requirements. 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.

The District seeks to foster an environment in which all employees and students feel free to report incidents of harassment without fear of retaliation or reprisal. Retaliation for exercising one's right of protection from discrimination and/or harassment or for participating in the investigation of a complaint is prohibited by law and this policy, and will not be tolerated. All allegations of retaliation will be swiftly and thoroughly investigated. If the District determines that discrimination, harassment, or retaliation has occurred, it will take all reasonable steps within its power to stop such conduct. Students or employees who engage in discrimination, harassment, or retaliation are subject to disciplinary action, up to and including termination or expulsion.

Harassment

Hostile or offensive conduct based on a protected status 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 innuendos 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.

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

Submission to the conduct is made a term or condition of an individual's employment, academic status, or progress;

Submission to, or rejection of, the conduct by the individual is used as a basis of employment or academic decisions affecting the individual;

The conduct has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile or offensive work or educational environment; or

Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the college.

This section doesn't cover sexual harassment under Title IX.

Duty to Report

Except for psychologists in the College's Student Health Center, any District employee who knows of or has reason to know of sexual misconduct, dating or domestic violence, and stalking shall promptly inform a member of the Title IX Team. These employees are considered responsible employees mandated reporters under Title IX and are required to disclose all information, including the names of the parties, even where the person has requested that their name remain confidential. Supervisors are mandated to report all incidents of harassment and retaliation that come to their attention.

The Title IX Coordinator or District Administrator of Title IX and all employees designated as "Officials with Authority" under Title IX will determine whether confidentiality is appropriate given the circumstances of each such incident as the District must then take appropriate steps to eliminate any gender discrimination/harassment/misconduct, prevent its recurrence, and remedy its effects. The District is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the District will report the type of incident in the annual crime statistics report known as the Annual Security Report, Complainant names/identities will not be revealed.

BP 3430 and AR 3425 applies to all aspects of the academic environment, including but not limited to classroom conditions, grades, academic standing, employment opportunities, scholarships, recommendations, disciplinary actions, and participation in any community college activity. In addition, this policy applies to all terms and conditions of employment, including but not limited to hiring, placement, promotion, disciplinary action, layoff, recall, transfer, leave of absence, training opportunities and compensation.

Supportive Measures

The District will offer and implement appropriate and reasonable supportive measures to the Parties upon notice of alleged sexual harassment and/or retaliation. Supportive measures are non-disciplinary, non-punitive individualized services, offered as appropriate, as reasonably available and without fee or charge to the Parties, which are intended to restore or preserve equal access to the District's education program or activity, to protect the safety of all Parties or the District's educational environment, and/or deter sexual harassment and/or retaliation.

The Title IX Coordinator will promptly make supportive measures available to the Parties upon receiving notice or a complaint, and will coordinate the effective implementation of such measures. At the time that supportive measures are offered, the District will inform the Complainant, in writing, that they may file a formal complaint with the

District either at that time or in the future, if they have not done so already.

The District will maintain the privacy of the supportive measures, provided that privacy does not impair the District's ability to provide the supportive measures. The District will act to ensure as minimal an academic/occupational impact on the Parties as possible. The District will implement measures in a way that does not unreasonably burden the other party. Supportive measures may include, but are not limited to:

- Counseling and referral to medical and/or other healthcare services
- Referral to the Employee Assistance Program
- Referral to community-based service providers
- Student financial aid counseling
- Altered work arrangements for employees or student-employees
- Safety planning
- Campus safety escorts
- Implementing mutual contact limitations (no contact orders) between the Parties
- Academic support, extensions of deadlines, or other course/program-related adjustments
- Trespass orders
- Class or work schedule modifications, withdrawals, or leaves of absence
- Increased security and monitoring of certain areas of the campus
- Any other actions deemed appropriate by the Title IX Coordinator
- Violations of no contact orders will be referred to appropriate student or employee conduct processes for enforcement.

Student Sanctions

In cases involving Respondents who are students, the hearing process detailed herein shall serve as the due process hearing outlined in Section IV of Board Policy 5500. The following are the usual sanctions that may be imposed upon students or organizations singly or in combination:

- Warning: A verbal statement that the conduct was unacceptable and that further violation of any District policy, procedure, or directive will result in more severe sanctions/responsive actions.
- Reprimand: A written statement, included in the student's disciplinary file that the conduct was unacceptable and that further misconduct will result in more severe sanctions /responsive actions.
- Required Counseling: A mandate to meet with and engage in either District-sponsored or external counseling to better comprehend the misconduct and its effects.
- Probation: Authorization for the Respondent to return to classes, but with an understanding of expected appropriate future behavior and terms that may include denial of specified social privileges, exclusion from co-curricular activities, exclusion from designated areas of campus, no-contact orders, and/or other measures deemed appropriate. Any violations of the Standards of Student Conduct during this probationary period will result in further, more serious disciplinary action against the Respondent.
- Suspension: Termination of student status for a definite period of time not to exceed two academic years.
- Expulsion: Permanent termination of student status and revocation of rights to be on campus for any reason or to attend District-sponsored events.
- Withholding Diploma: The District may withhold a student's diploma for a specified period of time and/or deny a student participation in commencement activities if the student has an allegation pending or as a sanction if the student is found responsible for an alleged violation.
- Revocation of Degree: The District reserves the right to revoke a degree previously awarded from the District for serious violations committed by a student prior to graduation.
- Student Organizational Sanctions: Deactivation, loss of recognition, loss of some or all privileges for a specified period of time.
- Other Actions: In addition to or in place of the above sanctions, the District may assign any other sanctions as deemed appropriate.

Employee Sanctions

Responsive actions for an employee who is found to have engaged in Prohibited Conduct, as defined herein include:

- Warning – Verbal or Written
- Performance Improvement Plan
- Enhanced supervision, observation, or review
- Required Counseling
- Required Training or Education
- Demotion
- Transfer
- Reassignment
- Assignment to new supervisor
- Restriction of stipends, research, and/or professional development resources
- Suspension with pay
- Suspension without pay
- Termination
- Other Actions: In addition to or in place of the above sanctions/ responsive actions, the District may assign any other responsive actions as deemed appropriate.

Definitions

The District has adopted the following definitions so as to address the unique environment of an academic community.

Affirmative Consent means an affirmative, conscious, and voluntary agreement to engage in sexual activity. It is the responsibility of each person involved in sexual activity to ensure that they have the affirmative consent of the other or others to engage in the sexual activity. Lack of protest or resistance does not mean consent, nor does silence mean consent. Affirmative consent must be ongoing throughout a sexual activity and can be revoked at any time. The existence of a dating relationship between the persons involved, or the fact of past sexual relations between them, should never by itself be assumed to be an indicator of consent. In California, a minor (meaning a person under the age of 18) cannot consent to sexual activity.

It shall not be a valid response to alleged lack of affirmative consent that the Respondent believed that the Complainant consented to the sexual activity under either of the following circumstances:

The Respondent's belief in affirmative consent arose from the intoxication or recklessness of the Complainant Respondent. Any allegation that alcohol or other drugs were involved in an incident will be reviewed.

The Respondent did not take reasonable steps, in the circumstances known to the Respondent at the time, to ascertain whether the complainant affirmatively consented.

It shall not be a valid response that the Respondent believed that the Complainant affirmatively consented to the sexual activity if the Respondent knew or reasonably should have known that the Complainant was unable to consent to the sexual activity under any of the following circumstances:

The Complainant was asleep or unconscious.

The Complainant was incapacitated due to the influence of drugs, alcohol, or medication, so that the Complainant could not understand the fact, nature, or extent of the sexual activity.

The Complainant was unable to communicate due to a mental or physical condition.

Complainant means an individual who is alleged to be the victim of conduct that could constitute Sexual Harassment, as defined herein, whether the notice/complaint is presented by the individual or someone on the individual's behalf, such as a report by one who learned of the conduct in his or her official capacity as a faculty member or administrator.

Formal Complaint means a document submitted or signed by a Complainant or signed by the Title IX Coordinator alleging Prohibited Conduct against a Respondent and requesting that the District investigate the allegation.

Notice means that an employee, student, or third-party informs the Title IX Coordinator or other Official with Authority of the alleged occurrence of harassing, discriminatory, and/or retaliatory conduct.
Official with Authority (OWA) means an employee of the District explicitly vested with the responsibility to implement corrective measures for sexual harassment and/or retaliation on behalf of the District.
Prohibited Conduct means any sexual misconduct, gender or sex-based discrimination or harassment, dating violence, domestic violence, stalking, and retaliation.
Remedies are actions taken to address safety, prevent recurrence of Prohibited Conduct, and restore equal access to the District's educational program.
Resolution Process refers broadly to the process for addressing Formal Complaints either by informal resolution or through a Formal Grievance Process that includes investigation, live hearing, and appeal.
Respondent means an individual who has been reported to be the perpetrator of Prohibited Conduct, as defined herein.
Sanction means a consequence imposed by the District on a Respondent who is found to have engaged in Prohibited Conduct under this interim administrative regulation.
Sexual Harassment means conduct on the basis of sex that satisfies one or more of the following:
A. Quid Pro Quo Sexual Harassment: When an employee of the District conditions (implicitly or explicitly) the provision of an aid, benefit, or service of the District on an individual's participation in unwelcome sexual conduct; or
B. Hostile Environment Sexual Harassment: Unwelcome conduct determined by a reasonable person standing in the shoes of the Complainant to be so severe, pervasive, and objectively offensive that it effectively denies a person equal access to the District's education program or activity; or
C. Sexual assault, dating violence, domestic violence, or stalking, as defined herein.
1. **Sexual assault** means any sexual act (forcible or non-forcible), directed against another person, without the consent of the victim, including instances where the victim if incapable of giving consent. Sexual acts include the following:
(a) Rape, which is defined as the penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the consent of the Complainant.
(b) Sodomy, which is defined as oral or anal sexual intercourse with another person, forcibly committed and/or against that person's will (non-consensually), or not forcibly or against the person's will in instances in which the Complainant is incapable of giving consent because of age or because of temporary or permanent mental or physical incapacity.
(c) Sexual Assault with an Object, which is defined as the use of an object or instrument to penetrate, however slightly, the genital or anal opening of the body of another person, forcibly and/or against that person's will (non-consensually), or not forcibly or against the person's will in instances in which the Complainant is incapable of giving consent because of age or because of temporary or permanent mental or physical incapacity.
(d) Fondling, which is defined as the touching of the private parts of another person for the purposes of sexual gratification, without the consent of the victim, including instances where the victim is incapable of giving consent because of age or because of temporary or permanent mental or physical incapacity.
(e) Incest, which is defined as sexual intercourse between persons who are related to each other within the degrees wherein marriage is prohibited by law.
(d) Statutory Rape, which is defined as sexual intercourse with a person who is under the statutory age of consent.
2. **Dating violence** means violence committed, on the basis of sex, by a person who is or has been in a social relationship of a romantic or intimate nature with the Complainant. The existence of such a relationship shall be determined based on a consideration of the following factors: the length of the relationship, the type of relationship and the frequency of interaction between the persons involved in the relationship. For the purposes of this definition, dating violence includes, but is not limited to, sexual or physical abuse or the threat of such abuse. Dating violence does not include acts covered under the definition of domestic violence.
3. **Domestic violence** means conduct, on the basis of sex, that includes the requisite components of felony or misdemeanor crimes of violence committed by (a) a current or former spouse or intimate partner of the victim; (b) a person with whom the victim shares a child in common; (c) a person who is cohabitating with or has cohabitated with the victim as a spouse; (d) a person similarly situated to a spouse of the victim under California law; or (e) any other person against an adult or youth victim who is protected from that person's acts under California law.
4. **Stalking** means a course of conduct directed at a specific person on the basis of sex that would cause a reasonable person to fear for the person's safety or the safety of others, or to suffer substantial emotional distress. For the purposes of this definition: (a) A course of conduct is two or more acts, including, but not limited to, acts in which the Respondent directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveils, threatens, or communicates to or about a person, or interferes with a person's property; (b) Reasonable person means a reasonable person under similar circumstances and with similar identities to the Complainant; and (c) Substantial emotional distress means significant mental suffering or anguish that may but does not necessarily require medical or other professional treatment or counseling.
Student/Students means any as any individual who has accepted an offer of admission, or who is registered or enrolled for credit or non-credit bearing coursework, and who maintains an ongoing relationship with the District.
Third Party means a person other than the Complainant and the Respondent.
Any individual can submit a report by using the following link: **www.rsccd.edu/incidentreportingform**
Applicable regulations, resources, and additional information can be found at **www.rsccd.edu/titleix or www.rsccd.edu/civilrights**

Smoking and Tobacco Use In District Facilities and Vehicles

Smoking is prohibited in all campus areas including all District owned, rented or leased properties and vehicles, except in designated parking lot areas and within 20 feet of entrances, exits, and operable windows.
Smoking is defined as the use of products containing tobacco and/or nicotine, including but not limited to smokeless tobacco, clove cigarettes, or any other smoking products, and any and all electronic or "e-cigarettes", which are unapproved nicotine delivery devices, unregulated by the FDA.
Public performances in which smoking is an integral and necessary part of the production are excluded from these regulations.
These regulations apply to employees, students, visitors and all other persons who use District owned or rented/leased facilities and vehicles.
Failure to comply with these regulations may result in disciplinary action.
It is the responsibility of every District employee to comply with these regulations and report violations to District Safety.
These regulations do not supersede more restrictive policies which may be in force under State and Federal regulations. (AR-3570)

ADMISSIONS AND REGISTRATION

Admission Eligibility

You may attend Santa Ana College if you meet one of the conditions below:

You are a high school graduate

OR

You are a person in possession of a California high school proficiency certificate

OR

You are 18 years of age or older who can profit from instruction

OR

You are a high school student qualifying for Career Advanced Placement Program

OR

You are an international student with a valid Visa.

Application

New students and students returning after an absence of two consecutive semesters (not including summer) must file an application on-line for admission to the college.

To complete the online application, please log on to www.sac.edu and click on the "Apply to College" link at the top of the page to apply via the OpenCCCApply website. Within 24 – 72 hours you will receive an email with your WebAdvisor Login which will allow you to go online, change your password, and view your registration date and time. If you are a returning student, your WebAdvisor Login and student ID will remain the same.

Application Dates

Fall Semester:	Beginning April 1
Spring Semester:	Beginning November 1
Summer Session:	Beginning April 1
Spring Intersession:	Beginning November 1

Residency

All students are classified as a resident of the State of California or non-resident when applying for admissions.

"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.

"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.

1. Persons who are under 18 years of age (minors) establish residence in accordance with above "resident" definition and the following:

a. Married minors may establish their own residence.

b. The residence of the parent with whom an unmarried minor child maintains a place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, residence is that of the parent with whom the minor last resided. The minor may establish residence when both parents are deceased and a legal guardian has not been appointed.

c. The residency of unmarried minors who have a parent living cannot be changed by their own acts, appointment of legal guardians, or relinquishment of a parent's right of control (EC 68062).

2. Persons who are 18 years of age or older (adults) establish residency in accordance with EC 68017 (see above). Adult residency begins after the 18th birthday.

3. A person's residency shall not be derived simply by being married. A man or a woman establishes his or her residency independent of his or her spouse. Many of the objective manifestations may be shared, but each may have some evidence of intent that is not shared.

4. If a student holds an Employment Authorization Card or a VISA including, but not limited to, any one of the following visas: B-1/B-2. C, 0-1/0-2, F- 1/F-2, H-2/H-3, J-1/J-2, M-1/M-2, O-2, P- 1/P-2/P-3/P-4, Q, TN/TO, the students must present documentation to the Admissions and Records Office for review to determine residency status.

5. **Exceptions:**

The California Education Code and provisions in state law allow certain non-residents the opportunity to pay instate tuition. Eligibility criteria are noted below.

Students who believe they are eligible for an exemption based on any one of the following criteria should consult the Office of Admissions and Records when they apply:

a. Students who are members of the armed forces of the United States who are stationed in this state on active duty, except those assigned to California for educational purposes.

b. Spouses and dependents (natural or adopted children or stepchildren) of active members of the armed forces.

c. Students who are eligible as covered individuals as defined in the Veterans Access, Choice and Accountability Act of 2014 (VACA Act) who are taking advantage of their Chapter 30 or 33 benefits.

d. Parents who are federal civil service employees and have moved to California as a result of a military realignment action that involves the relocation of at least 100 employees. This exemption also applies to the natural or adopted children or stepchildren of such employees.

e. Students who are under 20 years old and served by the California Foster Care System.

f. Students who have completed at least three years of high school in California and have graduated from a California high school. Students must fill out and submit the "AB 540 Affidavit for Exemption" for consideration.

g. Refugee applicants (Note: A refugee may be entitled to an immediate exemption from the nonresident tuition fee is upon entry to the United States, the refugee first settled in California pursuant to the provisions of Education Code section 68075.6. This exemption is only for the length of time he or she lives in this state up to the minimum time necessary to become a resident (one year and one day).

6. Specific residency problems and questions will be answered by the Admissions and Records Office.

AB 540

Pursuant to Education Code 68130.5 (AB 540), any student, other than a nonimmigrant alien, who meets all of the following requirements, shall be exempt from paying nonresident tuition at the California Community Colleges, the University of California, and the California State University (all public colleges and universities in California).

1. Requirements:

a. Attended a combination of California high school, adult school, and community college for the equivalent of three (3) years or more

b. Have three (3) or more years of California high school coursework and attended a combination of California elementary, secondary, and high school of three (3) years or more

c. Have graduated or will graduate with a California high school diploma or have the equivalent (i.e. California-issued GED, CHSPE)

d. Have completed or will complete an associate's degree from a California Community College

e. Have completed or will complete the minimum requirements at a California Community College or transfer to the California State University or the University of California

f. In the case of a person without lawful immigration status, the filing of an affidavit with the college stating that the student has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so

g. All students who meet AB540 or AB2000 requirements must file an affidavit with the college. The affidavit is included in the California Non-Resident Tuition Exemption form which is available in the Admissions & Records Office

h. Students living outside the state and enrolled in distance education are not eligible for the AB540/AB2000 exemption

2. Students who are non-immigrants [for example, those who hold F (student) visas, B (visitor) visas, etc.] are not eligible for this exemption.

3. The student must file an exemption request including a signed affidavit with the college that indicates the student has met all applicable conditions described above. Student information obtained in this process is strictly confidential unless disclosure is required under law.

4 .Students eligible for this exemption who are transferring to another California public college or university must submit a new request (and documentation if required) to each institution.

5. Non-resident students meeting the criteria will be exempted from the payment of nonresident tuition, but they will not be classified as California residents. They continue to be "non-residents".

6. As a component of The California Dream Act, AB 131 allows students who meet AB 540 criteria to apply for and receive state-funded financial aid such as community college fee waivers, Cal Grant and Chafee Grant.

International Student Admissions

A limited number of international students (F-1 Visa) are eligible for admission to the college each year. International students who plan to attend under a student visa should apply to the International Student Office for forms and instructions. Application deadlines are July 1 for the fall semester, December 1 for the spring semester, and April 1 for the summer session. A $50 application fee is required with the application. For more information call 714-564-6047.

Admission Policy of International Students on F-1 Visa Status:

1. The international student must submit a complete, official academic transcript of all high school and previous college work attempted. Transcripts must be officially translated into English, bear the school seal, and be signed by the registrar or another appropriate official. Applicants are considered for admission only if their course grades are above average (C+ or higher).
2. International students must have sufficient knowledge of English to enable them to profit from instruction at the college level. Adequacy of English proficiency is determined by a satisfactory score (450+) on the Test of English as a Foreign Language (TOEFL), administered worldwide by the Educational Testing Service, Box 899, Princeton, New Jersey 05840.
3. International students must be at least 18 years of age unless they are graduates of an accredited United States high school.
4. Students on the F-1 Visa must present evidence that they have financial resources to defray costs during the period of attendance at the college Approximate annual costs for a student enrolled in 12 units each semester are: a nonresident tuition fee of $7,800; health insurance, $1,670; textbooks and supplies, $800; living expenses, $12,000, enrollment fee $1,104, other fees $235.50 for a total of $23,609.50. This figure does not include transportation costs or summer school tuition.
5. International student applicants must be in good physical health as certified by a licensed physician on the form provided by the college. Measles and poliomyelitis immunization must be completed or the physical examination by a physician must include a chest x-ray report and indicate that students have no contagious disease.
6. Proof of health insurance is required prior to registration. The college accepts no responsibility for medical expenses incurred by international students.
7. The colleges in the Rancho Santiago Community College District do not provide housing for their students; however, placement with an American Host Family is available upon request. Many apartment complexes are located near the campus. A listing of apartments will be made available to all new students and assistance with locating housing will be provided.
8. International students are required to enroll in English or English as a Second Language/English for Multi-Lingual students during their first semester.

International Transcripts – Evaluation Practices

Santa Ana College may grant credit for college coursework completed outside of the United States. Students must submit their records to a Santa Ana College recognized evaluating agency, in order to obtain an equivalency/evaluation report (contact the Admissions Office or Counseling Division for listings of evaluating agencies). Once the Admissions Office at Santa Ana College receives the equivalency/evaluation report, an official evaluation will be conducted to determine course applicability.

The following guidelines apply to coursework completed outside of the United States.

1. There is no transfer credit limit a student may be granted for coursework completed outside of the United States. However, Santa Ana College may only grant credit for lower division classes.
2. College credit may be granted toward Santa Ana College baccalaureate degree, associate degree and certificate programs.
3. Coursework may not be used to fulfill the following General Education Requirements: English Composition, American Institutions, Reading, and Oral Communication. Courses intended to fulfill major requirements must be submitted to the major department for approval.

4. Coursework may not be used to fulfill General Education Certification requirements for CSU-GE or IGETC (with the exception of Area 6- Languages Other Than English).
5. Santa Ana College may not determine course transferability to other colleges and universities.
6. Students who have completed coursework outside of the United States are encouraged to meet with a counselor to determine course and program applicability.

Guided Pathways

Since 2017 Santa Ana College has participated in the California Guided Pathways Project. Santa Ana College's Guided Pathways work focuses on implementing an integrated, institution-wide approach to student success by creating structured educational experiences that support each student from point of entry to attainment of high-quality postsecondary credentials and careers.
The Guided Pathways framework creates a highly structured approach to student success that provides all students with a set of clear course-taking patterns to promote better enrollment decisions and prepare students for future success. Guided Pathways is aimed at helping students reach their career and educational goals by creating highly structured, unambiguous road maps that will lead to a defined objective. As an ongoing project of self-evaluation and institutional improvement our college uses the Guided Pathways framework to improve student achievement and transfer, cut down on the total number of units while earning a degree, increase career certifications and eliminate achievement gaps.

The Guided Pathways framework rests on four pillars. These are:

- Create clear curricular pathways to employment and further education.
- Help students choose and enter their pathway.
- Help students stay on their path.
- Ensure that learning is happening with intentional outcomes.

The California Community Colleges Chancellor's Office introduced the Guided Pathways framework in the fall of 2017. Today, all 115 California community colleges are actively working on or implementing a Guided Pathways model.

Find out more about Guided Pathways at Santa Ana College: **sac.edu/guidedpathways**

Find out more about the Guided Pathways Project here: **caguidedpathways.org**

Assembly Bill AB 705: The Law And Your Rights

The Governor of California signed the bill, AB 705, on October 13, 2017 to take effect on January 1, 2018. This bill changes the way in which California Community Colleges place students into English, Math, and English for Multilingual Students courses. This is based on statistical evidence that U.S. high school coursework, high school grades and high school grade point average are better indicators of appropriate placement than the previously used standardized tests. The only standardized test that we can still offer under AB 705 is for courses for English Multilingual Students.

Under AB 705, we are also required to use multiple measures, which can include other academic experiences, work history, military training, specialized licenses, certificates, and a Guided Self Placement. Students that do not have access to U.S. High School transcripts can complete the Guided Self Placement, please visit the Assessment Center website at **sac.edu/assessmentcenter** for additional information.

Placement data disaggregated by race and ethnicity is available for all students to access by visiting the **qrgo.page.link/ETG9y** link.

Registration Orientation

Registration Orientation is done in a small group (up to 20 students) and is led by a counselor. During the first 40 minutes students will be provided with an overview of Santa Ana College, the English and Math placement process, cost, financial aid information, and the registration process

Students will also have the opportunity to briefly meet one-on-one with a counseling faculty for academic advisement and to develop a two-semester abbreviated education plan. Students will be seen using the following order:

Students planning to enroll just for one semester.

New students that have never attended SAC or any other Community College or University.

Students that have taken classes at other Community Colleges or Universities. We recommend students bring a copy of their college and/or university transcripts.

Call or visit the Assessment Center for more information.

sac.edu/orientation

Who Should Attend?

If you are a new student to Santa Ana College.

If you are undecided about what courses to take.

If you want to better understand AB 705 and the changes with placement into transfer level English and Math courses.

Assessment via College Application?

Students who have graduated from a U.S. high school will receive the placement levels based upon high school performance information that is provided on the application for admission. The new college application (OpenCCC) will identify English and math courses that students can enroll in using prior high school history. Students will report cumulative, unweighted high school GPA, and courses completed.

Is there anything I need to bring to the Orientation?

Yes, you will need to bring a copy of your high school and other academic transcripts.

What if I do not have access to my U.S. high school transcript?

You can take the Guided Self-Placement online by going to the Assessment Center webpage **sac.edu/assessmentcenter** or you can call the Assessment Center at 714-564-6148, or visit us in Building L, Room L-223 for additional information.

What if English is not my first language?

We offer English for Multilingual Students (EMLS) courses. If English is not your first language and you want to develop your reading, writing, grammar, and speaking skills you should:

STEP 1: Take TELD Placement Exam and complete Guided Self-Placement online by going to the Assessment Center webpage **sac.edu/assessmentcenter**

STEP 2: Speak with a Counselor to determine which course is the appropriate option for you based on your academic goal.

You can contact the Counseling Division at 714-564-6103 or stop by the Administration Building, Room S-112.

ADMISSIONS AND REGISTRATION

Registration

Continuing Students

A continuing student is a student who has not missed two consecutive full semesters. The student may check online via WebAdvisor for a registration date and time and may register any time thereafter until the Friday before the semester begins. Students are encouraged to see a counselor each semester in order to review their academic progress before completing registration.

New and Former Students

New or former students who complete an Admission application on-line will receive registration information by email within 1–3 business days.

Priority Registration

Santa Ana College will provide priority registration for students who enroll in a community college for the purpose of degree or certificate attainment, transfer to a four year college or university, or career advancement. These enrollment priorities were established Fall Semester, 2013.

Students who have completed orientation, assessment, and developed student education plans and are eligible as a member of the armed forces or a veteran pursuant to Education Code section 66025.8 or as a foster youth or former foster youth pursuant to Education Code section 66025.9;

- Students who have completed orientation, assessment, and developed student education plans and are eligible and receiving services through Disabled Student Programs and Services or Extended Opportunity Programs and Services;
- CalWORKs students
- Athletes who have completed orientation, assessment, and developed education plans.
- First time students participating in the Early Decision/Early Welcome programs who have completed orientation, assessment, and developed student education plans
- Continuing students, not on academic or progress probation for two consecutive terms as defined in these policies and procedures
- New matriculating students with educational plan
- New non-matriculating students Probationary students (academic and progress) & students with 100+ degree applicable units
- Career Advance Placement (CAP) – concurrently enrolled high school students

Loss of Registration Priority

The state of California has adopted Title 5 Regulation 58108 (j), establishing enrollment priorities for students attending California Community Colleges. The regulation will affect the date/time in which students are allowed to register for classes. This policy was established Fall Semester, 2013.

Continuing students at Santa Ana College will lose their enrollment priority for the following reasons:

Student has attempted 12 units and their RSCCD cumulative GPA has fallen below 2.0 for two consecutive semesters;

Student has attempted 12 units and the percentage of all coursework at SAC/SCC has an entry of "W," "I," "NP," and "NC" which reaches or exceeds fifty percent (50%) § 55031;
IMPORTANT NOTE: Registration priority shall be lost at the first registration opportunity after a student is placed on academic or progress probation or any combination thereof for two consecutive terms.

Student has earned 100 or more degree applicable units from Santa Ana and Santiago Canyon Colleges.

Students who have SAC as their home campus can submit a petition for appeal to the Admissions Office at SAC for the following reasons: 1) there were extenuating circumstances (verified cases of accident, illness) and can provide documentation; 2) students with disabilities who applied for but did not receive accommodation in a timely manner; 3) can demonstrate SIGNIFICANT academic improvement in a subsequent term. Students may also regain registration priority by sitting out two consecutive semesters.

Students who have earned 100 or more degree applicable units can appeal if they have declared a high unit major and are currently working toward a degree. Forms for these appeals can be obtained in Admissions and Records or downloaded from the college website.

Late Registration

Instructor signature or add code is required on all adds after the semester begins.

Schedule of Classes

The Schedule of Classes is prepared each semester and is available online. It includes general information, courses offered, hours, rooms, and instructor names. Classes added to the schedule after publication may be accessed online.

Student Photo Identification Card

All Santa Ana College students are provided with a photo identification card as part of the college registration and matriculation process. The card will be required for use of the college Library, Health & Wellness Center, academic support services, and more beginning January 2017. Photo I.D. is located in the Cashier's Office in VL-205B.

Full-Time – Part-Time Definition

Full-time students (Fall and Spring) = 12 or more units

Part-time students (Fall and Spring) = Less than 12 units

Full-time students (Summer) = 6 units

Part-time students (Summer) = Less than 6 units

Students receiving social security benefits or satisfying the requirements of insurance companies must be carrying 12 or more units to be eligible.

Veterans Administration eligibility uses the following definition:

Full-time = 12 or more units

Three-fourth benefits = 9 through 11 units

One-half benefits = 6 through 8 units

Any change in veteran status, whether it be increase, decrease, or complete withdrawal, must be brought to the attention of the Veteran's Office immediately.

Classification of Students

Career Advanced Placement: one who has not graduated from high school.

Freshman: one who has completed 0-29 units.

Sophomore: one who has completed 30 or more units.

Graduate: one who has received an associate degree or higher.

Summer Session

The colleges offer a four-, six- and eight-week summer program of morning and evening courses. Summer courses can remove high school or college deficiencies and advance the students toward an educational goal.

Weekend College

Classes are offered on Friday evenings and Saturdays and Sundays so that students can earn units applicable to the associate degree, acquire occupational skills, earn units for transfer to four-year schools, or gain personal enrichment.

Career Advanced Placement Program (CAP)

K-12 students wanting to take college credit courses are considered Career Advanced Placement (CAP) students. This is a unique opportunity that is geared toward educational enrichment, not remediation.

1. Student must obtain signatures of parent and school principal.
2. Student must obtain college approval from the Division Dean or designee. Final approval rests with Santa Ana College.
3. A completed 'Consent to Treat a Minor' form is required along with the Career Advanced Placement form. Return both forms to the Admissions Office (S-101). If necessary, the Admissions Office will advise the student to complete the Admissions Application and provide registration instructions.
4. It is recommended for students who plan to take English or Math courses to meet with a Counselor to review high school transcripts for appropriate course recommendation. For additional information and to find out about drop-in counseling services, contact the Assessment Center at (714) 564-6148.
5. Students currently enrolled in grades K-8 are required to pay all college fees. The Enrollment Fee will be waived for students currently enrolled in grades 9-12 who are enrolled in 11 units or less. If the student enrolls in 12 units or more during fall and spring semesters, the student will be charged the current enrollment fee for all units. Students must also pay all other college fees.
6. High School students will not be charged enrollment fees if enrolling in 11 units or less. If the student enrolls in 12 units or more during fall and spring semesters, the student will be charged the current enrollment fee for all units. Further, during intersession and summer sessions, if the student enrolls in 6 units or more, the student will be charged for all units enrolled.
7. RSCCD shall charge a tuition fee to nonresident students who hold an F1 or F2 visa. F1/F2 students are not exempt.
8. A completed Consent for Treatment of a Minor form is required to be on file in the Admissions Office.
9. The parent or guardian signature grants permission for their son/daughter to enroll in college courses at Santa Ana College. The parent or guardian acknowledges that Santa Ana College is an adult environment and assumes responsibility for their young student's conduct while on campus. Additionally, in compliance with federal privacy law, the parent or guardian will need their student's written permission to gain access to any non-directory information.

CAP students will be receiving college credit for this class whether or not the units are used toward high school graduation. This means a college transcript is generated listing the class or classes and the grades earned. This establishes a permanent record with the college. Grades recorded for these classes are permanent and create a college transcript. The transcript information is confidential and is only accessible by the student. All college information is confidential and not accessible to parents or guardians.

CAP students are required to attend class until the end of the semester unless the student decides to drop the class online prior to the deadline identified in the schedule of classes. The drop deadline is set when 75% of the course has been completed. The student will receive a "W" when the student drops after the first two weeks of a full semester or after the first week of the summer session. Please read class section details listed in Web Advisor (Online Records) for important refund and drop deadlines.

CAP students must attend all classes. Material covered in college courses is at a faster pace than high school classes. Expect to spend twice as much time outside of class as in class completing assignments and homework.

Santa Ana College maintains open campuses. Students function under Standards of Student Conduct (Board Policy 5201), and there is an expectation that adult behavior will be displayed by students on campus. Academic honesty is a requirement, and sanctions are identified in course overviews, which are distributed by faculty on the first day of class. Students are responsible for their own transportation and materials on campus.

CAP students by law do not have priority registration. Under the California Code of Regulations, title 5, section 58108 "a district may establish a priority registration system which would accord adult students higher registration priority."

Prerequisites, Corequisites and Recommended Preparation for Courses

The colleges of the Rancho Santiago Community College District have adopted a policy on course prerequisites, corequisites, and advisories in order to provide for the establishing, reviewing, and challenging of prerequisites, corequisites on recommended preparation, and certain limitations on enrollment in a manner consistent with law and good practice. The policy, which is specified for implementation as an administrative regulation, is established pursuant to regulations contained in Article 2.5 (commencing with Section 55200) of Sub Chapter 1 of Chapter 6 of Title 5 of the California Code of Regulations. The RSCCD Board of Trustees recognizes that if these prerequisites, corequisites, and limitations are established unnecessarily or inappropriately, they constitute unjustifiable obstacles to student access and success and, therefore, the Board adopts this policy which calls for caution and careful scrutiny in establishing them. Nonetheless, the board also recognizes that it is as important to have prerequisites in place where they are a vital factor in maintaining academic standards and in assuring the health and safety of students as it is to avoid establishing prerequisites where they are not needed. For these reasons, the Board has sought to establish a policy that fosters the appropriate balance between these two concerns.

Important Definitions

If a student should see the words **Prerequisite** or **Corequisite** in the catalog, it is important to understand the definitions of these terms. Note that prerequisites and corequisites can be challenged. See Prerequisite Challenge Policy, for more information.

Prerequisite indicates 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. A prerequisite represents a set of skills or a body of knowledge that a student must possess prior to enrollment and without which the student is highly unlikely to succeed in the course or program. Students will not be permitted to enroll in such courses and programs without the appropriate prerequisite.

Corequisite indicates a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. A corequisite represents a set of skills or a body of knowledge that a student must acquire through concurrent enrollment in another course and without which the student is highly unlikely to succeed. Students must concurrently enroll in the corequisite course.

Recommended Preparation indicates that while a course is not required prior to enrollment, it is highly advised in order to strengthen the likelihood of success in subsequent courses.

Prerequisite Challenge Policy and Procedures Course Prerequisite Policy

Prerequisite means the preparation or previous course work considered necessary for success in the course. The College requires students to complete prerequisites as pre-enrollment preparation. Prerequisites which are listed in the College Catalog include:

1. Courses for which specific prerequisites have been established;
2. Sequential course work in a degree-applicable program, and;
3. Courses in which an equivalent prerequisite exists at a four-year transfer college or university.

Questions about prerequisites are best resolved with a counselor prior to the first day of class.

Prerequisite Challenge Process

A prerequisite challenge requires written documentation, explanation of alternative course work, background or abilities which adequately prepare the student for the course. A Prerequisite Challenge Form can be obtained from the appropriate instructional office. Prerequisites may be challenged for one or more of the following reasons:

1. The college has not developed the prerequisite according to its established procedures or has not developed the prerequisite in accord with existing statutes.
2. The prerequisite is discriminatory or is being applied in a discriminatory fashion.
3. The college has not made the prerequisite course reasonably available.
4. The student has documented knowledge and abilities equivalent to those specified in the prerequisite course.

The challenge will be reviewed by a committee consisting of the dean, or designee, department chair, or designee, and one department or division representative or designee.

If space is available in a course when a student files a challenge to the prerequisite or corequisite, the district shall reserve a seat for the student and resolve the challenge in a timely manner. If no space is available in the course when a challenge is filed, the challenge shall be resolved prior to the beginning or registration for the next term and, if the challenge is upheld, the student shall be permitted to enroll if space is available when the student registers for that subsequent term.

NOTE: Students who are challenging a course which is a requirement for a degree or certificate may wish to use the Credit by Examination process to receive credit for the challenged course.

Specific regulations and procedures relating to course prerequisites, corequisites, and advisories are on file in the office of the Vice President of Academic Affairs at Santa Ana College.

Multiple and Overlapping Enrollments (BP4226)

1. Students may only enroll in two or more sections of the same credit course during the same term if the length of the course provides that the student is not enrolled in more than one section at any given time.
2. Students may only enroll in two or more courses where the meeting times overlap under the conditions specified in Title 5 Section 55007.

Fees, Tuition, and Expenses

1. All students are required to pay enrollment fees of $46 per unit.
2. A health fee of $19 per semester ($16 for summer and $18 for intersession) is charged to all students whether or not they choose to use health services.
   Health Fee Exemptions (Education Code 76355): (1) Any student who depends exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization, provided that the student presents documentary evidence of an affiliation with such a bona fide religious sect, denomination, or organization.(2) Any student enrolled in an approved Apprenticeship Program. A request for an exemption may be filed at the Admissions and Records Office.
3. A parking permit is required at all times to park on campus. Day permits are available through the parking lot meters and are $2.00 a day. Students can purchase term permits through WebAdvisor, Spring and Fall permits are $30.00 and Intersession and Summer are $10.00.
4. A College Student Life and Leadership fee of $10.00 and a Student Representation fee of $2.00 is payable at registration for classes. These fees are optional. Students who do not wish to pay these fees may request a refund by calling (714) 564-6965 or by visiting the Cashiers in VL-205B. Refunds must be requested before your drop for non-payment date.
5. A transportation fee of $6.75 for full time students (12+units) and $5.75 for part time students (.5–11 units) is charged to all students whether or not they choose to use the transportation discount service (OCTA ride program).
6. Student ID cards are FREE of charge and available at the Campus Cashiers Office.

Non-resident Tuition

Non-resident Tuition: $325 per unit in addition to the per enrollment fee for out of state residents and for students who are a citizen of a foreign country. Refer residency questions to the Admissions Office.

Visa or MasterCard, American Express and Discover are accepted for all fees. All tuition, fees, and expenses are subject to change with new state legislation.

Textbooks and Supplies

Textbooks, supplies, and athletic equipment must be purchased by the student. Special fees required for certain courses are indicated in the class schedule.

Fees and tuition are subject to change by the state legislature, Community College Board of Governors, or District Board of Trustees.

Drop for Non-Payment

Drop for Non-payment Policy: Enrollment fees must be paid in full within3 days of registration (including weekends and holidays) or unpaid classes may be dropped and released to other students. The day you register is counted as day 1.

In addition to the 3-day non-payment drop policy, there is a final outstanding balance drop date. **All fees must be paid in full by the Friday before the start of the semester.** No balance will be carried over into the start of the semester. **It is the student's responsibility to drop by the refund deadline to avoid any fees for late adds.**

Refund of Tuition and Enrollment Fees

Students are eligible for full refunds of fees provided they have officially dropped from classes prior to the refund deadline or their classes have been canceled by the college. There is no refund for classes added after the refund deadline date. Please refer to section information via WebAdvisor for refund deadline.

Students who withdraw from class(es) through the first two weeks of instruction or 10% of the class may request a 100% refund. Students withdrawing after the second week of instruction are not eligible for a refund. (See current semester schedule.)

Refunds are based upon the date the student withdraws from the course online. No refund will be processed until assurance has been given that any check in payment for tuition has been cleared.

Enrollment Fee refunds are granted in accordance with established provisions of the community college education code. Contact the Cashier's Office or refer to the current class schedule for details of the refund policy and procedures.

There is no refund for variable units not completed.

Withholding of Student Records

Students or former students who have been provided with written notice that they have failed to pay a proper financial obligation shall have grades, diplomas, and registration privileges withheld.

Solomon Amendment For Military Recruiters

The Solomon Amendment is a federal law that allows personally identifiable student information to be released to recruiters that would have been denied them under FERPA. This law mandates that institutions receiving federal financial aid must fulfill military recruitment requests for access to campus and lists of students. If Santa Ana College fails to comply with these requests from military recruiters, the college will lose federal financial aid funding. Santa Ana College releases only directory information to military recruiters.

Open Educational Resources (OER)

Open Educational Resources (OER) refers to textbooks or online materials that are in the public domain or have a Creative Commons license. Classes listed with an OER symbol use free course materials unless noted in the course schedule comments. A course using Lumen Learning OER will charge a material fee for the online resource.

Zero Textbook Cost (ZTC)

Zero Textbook Cost (ZTC) refers to courses that eliminate conventional textbook costs by using alternative instructional materials and methodologies, including freely usable Open Educational Resources. Classes listed with a ZTC symbol use free course materials.

FINANCIAL AID

Financial Aid is intended to help students who might not otherwise be able to attend school. Although the primary responsibility for meeting college costs rests with the student and his or her family, it is recognized that many families have limited resources and are unable to meet the cost of a college education. Federal and State financial aid programs have been established to provide assistance for students with documented financial need.

The application process for financial aid begins with the completion of the Free Application for Federal Student Aid (FAFSA), which is available in October for the following fall semester. AB540 Students and DACA students should complete the California Dream act instead of the FAFSA. In order to qualify for financial aid, a student must be enrolled in an eligible program of study leading to completion of an AA/AS degree, transfer requirements or a certificate program; maintain satisfactory academic progress; for most programs, have demonstrated financial need; be a U.S. citizen or eligible non-citizen; certify compliance with selective service registration requirements; not be in default on any loan or owe a refund on any grant made under any Title IV program; have a high school diploma or GED.

For additional information stop by the Financial Aid Office at Santa Ana College, call 714-564-6242 or visit our web page at **sac.edu/finaid**.

Withdrawals and Repayment of Financial Aid Funds

Federal aid recipients who withdraw or are dropped from all classes by the instructor are subject to regulations regarding the Return of Title IV funds. Students who withdraw or are dropped from all classes prior to completing more than 60% of the enrollment period are subject to these rules. See the Financial Aid Office for this 60% date. Based on the date of the complete withdrawal or drop, the Financial Aid Office will determine the amount, if any, of "unearned" federal financial aid received by the student. If the student received more financial aid than the amount entitled to, the student will be billed for the overpayment. To avoid repayment, financial aid recipients are cautioned to:

- Avoid total withdrawal from all classes, successfully complete at least one class during the semester,
- Repay any "unearned" financial aid as soon as possible to regain eligibility for financial aid.

Federal PELL Grant

This is a grant and does not have to be repaid. PELL is a federally funded program designed to be the foundation of financial aid for undergraduates who demonstrate need. The amount of the PELL Grant is based on the cost of attendance, the estimated family contribution (EFC), and the student's enrollment status at the time of payment. Award amounts vary based on EFC and the number of units attending.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is another federally funded nonrepayable grant that is available to undergraduate students who demonstrate financial need. Priority in awarding FSEOG funds must be given to PELL Grant recipients with an EFC of $0. The award amount at Santa Ana College is $400 per academic year.

Federal Work-Study (FWS)

This federally funded program provides employment opportunities to students with financial need. Students awarded FWS receive an allocation of funds earned through part-time jobs on campus. FWS is also a learning opportunity through on-the-job training.

Priority Deadline for FSEOG and FWS Programs

These programs have limited funds and are generally awarded only to those eligible students who meet the Priority Deadline, which is usually during July each year.

Direct Loan Programs

Stafford Loan (Subsidized)

The federal government pays the interest on this need-based loan while the student is enrolled at least half-time (6 units) and during the six month grace period after graduation, withdrawal or enrollment below half-time status. Money is borrowed directly from the federal government. The maximum loan is $3,500 a year for students with fewer than 30 units. Students who have completed 30 units or more are eligible to borrow up to $4,500. Students enrolled only in preparatory coursework are eligible to borrow up to $2,625.

Stafford Loan (Unsubsidized)

The Unsubsidized Stafford Loan is available to students who do not have demonstrated need. The total of a subsidized and unsubsidized Stafford Loan may not exceed the loan limits above. There is no interest subsidy on this loan, and interest begins to accrue when the loan is disbursed.

Chafee Grant

This grant program is available to former foster youth. Awards are $5,000 per year. Apply using the FAFSA and the separate Chafee Grant application at **chafee.csac.ca.gov**

California State Programs

California College Promise Grant (CCPG)

The CCPG (Previously known as the Board of Governor's Fee Waiver or "BOGW") is a state program for California residents and AB 540 students which waives the enrollment fees for qualified students at community colleges. There are three ways to qualify for a CCPG:

1. The student demonstrates financial need according to the federal methodology based on completion of the Free Application for Federal Student Aid (FAFSA) or the California Dream Act Application;
   – **OR –**
2. The student or his/her family is receiving CalWORKs, formerly TANF/AFDC, or SSI (Supplemental Security Income), or General Assistance/General Relief, or the student is a disabled veteran or a dependent of a deceased or disabled veteran as certified by the California Department of Veterans Affairs.
   – **OR –**
3. The student meets specific income standards based on family size.

Pursuant to Title 5, section 58621, students with two consecutive semesters (fall/spring semesters) of academic or progress probation will lose eligibility for the CCPG fee waiver. Foster youth under the age of 25 years old are exempt from this regulation. Definitions of academic and progress probation can be found of **page 69** of this catalog.

A student may appeal the loss of the CCPG fee waiver if the student has been unable to meet academic and progress requirements due to one or more of the following reasons:

1. Verified cases of accidents, illnesses, or other circumstances beyond the student's control.
2. Student with disabilities who applied for but did not receive accommodation in a timely mannerSignificant academic improvement
3. Changes to the student's economic -situation
4. The student was unable to obtain essential support services
5. Special consideration of factors for CalWORKs, EOPS, DSPS, and Veteran students.

Appeal forms are available in the Financial Aid and Admissions & Records offices.

Cal Grants

To qualify for a Cal Grant a student must be a U.S. citizen, a permanent resident or an eligible non-citizen who is a California resident, or be registered as an AB540 student with Admissions and Records. The student must be attending an eligible college located in California and be making satisfactory academic progress. For all Cal Grants, apply between October 1 and March 2 each year using the FAFSA or California Dream Act Application, and GPA verification form.

Cal Grant A

Cal Grant A assists low and middle income students with tuition and fee costs at four-year institutions. Eligibility is based on academic achievement and financial need.

If a student qualifies for a Cal Grant A and plans to attend a public community college, the Student Aid Commission will put the tuition/fee award on reserve until the student transfers to a four-year college, provided that the student continues to qualify financially.

Cal Grant B

Cal Grant B provides money for books and supplies, housing costs and transportation. Eligibility is based on demonstration of substantial financial need.

Cal Grant C

Cal Grant C assists vocational students with tuition and related training costs such as special clothing, tools, equipment, books and supplies, and transportation.

Recipients must be enrolled in a vocational program at a community college, independent college of vocational school, in a program of study from four months to two years in length. Three-year hospital based nursing students are also eligible for this program.

DEGREES, CERTIFICATES AND TRANSFER PLANNING

Associate Degrees

The associate degree is a certification of the student's satisfactory completion of a program of study with a specific major or area of specialization. The associate degree is normally completed in two years and may be compared with the baccalaureate degree which is normally completed in four years.

Associate degrees are commonly conferred by community colleges. They are usually of two types, the associate of arts and the associate in science. The distinction between the associate of arts and the associate in science degrees lies in the majors. If the major is in the fields of engineering, physical or biological science, or occupational curricula, the degree conferred is usually the associate in science. Otherwise the associate of arts degree is conferred.

Ordinarily associate degrees have one of two major purposes. Either the program of study prepares the individual for transfer to a four-year college or university, or the program of study is intended to prepare the student for immediate employment.

The requirements for the associate degree include the specific courses in the major and what is called a general education or breadth requirement. The specific details concerning both the major and the general education requirements are described in Associate Degree Requirements (**see page 33**).

Associate Degrees For Transfer

Santa Ana College offers Associate Degrees for Transfer (AA-T or AS-T) in addition to associate degrees in Art and Science (A.A. or A.S.). The Student Transfer Achievement Reform Act (Senate Bill 1440, codified in California Education Code sections 66746– 66749) guarantees admission to the California State University (CSU) system for any community college student who completes an Associate Degree for Transfer or "ADT". See Associate Degrees for Transfer for requirements. (**See page 29**).

Certificate of Achievement Programs

A Certificate of Achievement (16 or more units or state approved under 16 units) is a verification of achievement in a particular academic or occupational area, and it will be included on the official transcript. Certificate programs normally include only those courses which have a direct bearing upon specialized occupational competency since the certificate has the sole objective of immediate employment in a specialized area. For this reason there is no general education requirement in a certificate program. Santa Ana College certificate of achievement programs are described in the catalog section on College Credit Instructional Programs. To qualify for a certificate, a candidate must meet the following requirements:

1. **Courses:** Courses are designated for the specific certificate.
2. **Grades:** At least a C grade in each course required for the certificate, unless otherwise specified. Credit by Examination may also be used to gain credit for required courses.
3. **Pass/No Pass:** A pass/no pass course is acceptable toward the certificate if it is required for the certificate and (a) offered on a pass/no pass basis only or (b) if the pass/no pass is earned on the basis of credit by examination.
4. **Residency:** Twelve units completed at Santa Ana College. (At least six of the units must be in courses required for the certificate.)
5. **Petition:** Petition for certificate filed by the student with the Office of Admissions and Records at Santa Ana College.

Distance Education

Distance education courses are Santa Ana College credit courses that include lectures, discussions, assignments and tests delivered via the Internet with opportunities for regular and substantive interaction with instructors and other students. The courses are academically equivalent to on- campus courses and support our district mission to provide quality educational programs and services that address the needs of our diverse students and communities.

Online courses require students to have a computer and Internet access. Students may also use computers in some on-campus facilities. The majority of the coursework is done online; however, some classes may require on-campus testing or require proctored exams.

Hybrid (blended) courses combine online learning with some on-campus or synchronous instruction. Classes may meet at least once during the semester. Details of scheduled course instruction are available in the schedule of classes, WebAdvisor, and at the Distance Education website, sac.edu/online.

The Online Degree Pathway Program is a program offered through Distance Education which allows students to learn and study collaboratively in a student cohort that takes prescribed coursework in an accelerated 8-week course structure. There are currently three online degree pathways:

- Associate in Science in Business Administration for Transfer (AS-T in Business Administration); this degree is for transfer to CSU and can be completed in 2 years
- Associate in Arts, in Liberal Arts Degree, 2 year completion; this degree prepares the student for transfer and can be completed in two years
- Associate in Arts in Psychology for Transfer (AA-T in Psychology); this degree is for transfer to CSU and can be completed in 2 years
- Business Administration Major Preparation for CSU, 1 year completion
- Psychology Major Preparation for CSU, 1 year completion

For Online Degree Pathway information, please visit our website:

sac.edu/onlinepathway, call (714) 564-6725, or email us at **sac_ disted@sac.edu**.

ASSOCIATE DEGREES FOR TRANSFER

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

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

Santa Ana College offers numerous AA-T and AS-T degrees. To find out which CSU campuses accept each degree, please meet with a SAC counselor. You can also find this information at **adegreewithaguarantee.com**. Many private California colleges and universities also accept these degrees. You can find information about them at **aiccu.edu/page/transfer**. **An AA-T or AS-T degree may not always 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.

Requirements

Student completion requirements for the associate degree for transfer:

1. 60 semester or 90 quarter CSU transferable units. At least 12 of the units must be earned at Santa Ana College.
2. The California State University General Education-Breadth pattern (CSU GE Breadth **page 36**); OR the Intersegmental General Education Transfer Curriculum (IGETC **page 38**) pattern.

Note: The ADT can be awarded to students completing the UC version of IGETC, but completion of this pattern will not satisfy CSU admission requirements.

Students pursuing an ADT in Chemistry or Biology, must complete CSU GE for STEM or IGETC for STEM as specified.

CSU GE Breadth for STEM for students earning an AS-T in Biology only

Complete the following CSU-GE courses before transfer:

- All courses in Areas A, B, and E; and
- One course in Area C1 Arts and one course in Area C2 Humanities; and
- Two courses in Area D from two different disciplines. Complete the following courses after transfer:
- One remaining lower-division GE course in Area C*; and
- One remaining lower-division GE course in Area D*.

* These deferred lower division courses must be replaced with calculus and/or science courses required by the major before transfer.

CSU GE Breadth for STEM completion does not qualify students for the CSU-GE Certificate of Achievement.

IGETC for STEM for students earning an AS-T in Biology or Chemistry only

Complete the following IGETC courses before transfer:

- All courses in Areas 1 (except 1C for UC-bound students), 2, and 5; and
- One course in Area 3A; one course in Area 3B; and two courses in Area 4 from two different disciplines.
- Complete the following courses after transfer:
- One remaining lower-division GE course in Area 3;*
- One remaining lower-division GE course in Area 4;* and
- One course in Area 6 for UC-bound students who have not satisfied it through proficiency.*

* These deferred lower division courses must be replaced with calculus and/or science courses required by the major before transfer

IGETC for STEM completion does not qualify students for the IGETC Certificate of Achievement.

3. A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district (see Instructional Programs portion of the catalog).
4. Obtainment of a minimum grade point average (GPA) of 2.0. (Some majors may require a higher GPA)
5. Earn a grade of C or better (C minus is not acceptable) or Pass in all courses required for the major or area of emphasis.

Santa Ana College currently offers the following Associate in Arts and Associate in Science for Transfer degrees:

- Administration of Justice
- Anthropology
- Art History
- Biology
- Business Administration
- Chemistry
- Communication Studies
- Computer Science
- Early Childhood Education
- Economics
- Elementary Teacher Education
- English
- Film, Television and Electronic Media
- Geography
- Geology
- History
- Journalism
- Kinesiology
- Mathematics
- Music
- Nutrition
- Philosophy
- Physics
- Political Science
- Psychology
- Sociology
- Spanish
- Studio Arts
- Theatre Arts

See the Instructional Programs Section in this catalog for major requirements.

Course Substitutions and Reciprocity, Policy and Procedures

Students who have completed courses at another California community college, a regionally accredited institution and/or completed an external exam such as AP, CLEP, or IB may apply the coursework or exam results toward AA-T/AS-T major requirements as follows:

1. A course with a C-ID designation which is completed at another California community college will be substituted for a SAC course that meets an Associate Degree for Transfer (ADT) major requirement designated with the same C-ID number. SAC departmental approval is not required.
2. A course without a C-ID designation which is completed at a regionally accredited institution, other than a California community college, will be reviewed by SAC discipline faculty. Course-to-course substitution will be granted based on discipline faculty determination of comparability to a SAC course with the approved C-ID designation for the given ADT. Course-to-course substitution will be granted in accordance with the state-wide C-ID descriptor when the SAC course does not have an approved C-ID designation, but a statewide C-ID descriptor exists. When no such descriptor exists, course substitution will be based on discipline faculty determination of comparability to a SAC course included on the ADT.
3. Students who have completed an external examination such as AP, CLEP, and IB are granted course credit toward ADT major requirements as listed in the SAC catalog. (Students should be aware that AP credit may be awarded/counted differently by the transfer institution.)
4. A course completed at another California community college that is approved as part of an associate degree for transfer will be applied to the corresponding Santa Ana College Associate Degree for Transfer (ADT) in the corresponding SAC ADT area. Courses completed at other California community colleges must be part of the ADT at the time the student completed the course. Courses completed at other CCCs prior to ADT approval will be "grandfathered".

CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS AT SANTA ANA COLLEGE

For each of the Programs of Study identified below, Santa Ana College currently offers the number of degrees and certificates as noted. For further information regarding the specific type of degree or certificate, please refer to the "Instructional Programs" section of this catalog.

BS = Bachelor of Science Degree
AA = Associate of Arts Degree
AA-T = Associate of Arts for Transfer
AS = Associate of Science Degree
AS-T = Associate of Science for Transfer
CA = Certificate of Achievement
CP = Certificate of Proficiency

Program of Study	BS	AA	AA-T	AS	AS-T	CA	CP
Accounting				1		5	4
American Sign Language						1	
Anthropology		1	1				
Art		3	2			5	1
Automotive Technology				1		6	5
Biology				1	1		
Biotechnology				1		3	1
Black Studies		1					
Business		1			1		
Business Applications		3		1		3	6
Chemistry				1	1		
Chicano Studies		1					
Child Development		3			1	4	3
Communication Studies		1	1				
Communications & Media Studies		2	1			1	
Community Social Services		1					
Computer Information Systems				1		1	3
Computer Science				1	1	1	1
Criminal Justice				1	1	1	1
Dance		1				1	
Diesel Technology				2		2	5
Digital Media		1				3	
Earth Science		1					
Economics		1	1				
Education		1	1				2
Engineering				6		5	3
English		1	1				
Entrepreneurship		1				1	1
Ethnic Studies		1					
Fashion Design Merchandising		3				4	5
Fire Technology				4		3	1
Geography		1	1				
Geology				1	1		

Program of Study	BS	AA	AA-T	AS	AS-T	CA	CP
History		1	1				
International Business		1				1	3
Kinesiology		1	1			1	1
Law						3	
Liberal Arts		6					
Library Technology		1				1	
Management		2				2	3
Manufacturing Technology				5		7	1
Marketing		1					1
Mathematics				1	1		
Medical Assistant				1		1	
Modern Languages		1	1				
Music		1	1			1	
Nursing				2			
Nutrition and Food				1	1	2	
Occupational Studies	1						
Occupational Therapy Assistant				1			
Paralegal		1				1	
Pharmacy Technology				1		2	
Philosophy		1	1				
Photography		1				1	
Physics				1	1		
Political Science		1	1				
Psychology		1	1				
Science				1			
Social Science		1					
Sociology		1	1				
Speech-Language Pathology Assistant				1			
Television/Video Communications					1		1
Theatre Arts		2	1			2	1
Welding Technology				1		3	2
Women's Studies		1					

THE ASSOCIATE DEGREE

General Education Philosophy

General Education requirements at Santa Ana College reflect the conviction that those who receive degrees must possess in common certain basic principles, concepts, and methodologies, both unique to and shared by various disciplines. Recognizing the need for students to embrace and adapt to increasingly and rapidly changing local, national and global conditions, the college seeks to ensure that students develop the necessary skills, knowledge, and curiosity to better themselves and their communities.

The subject matter of General Education courses is designed to be general, broad and introductory rather than specialized, narrow, or advanced. General Education courses form a pattern of learning experiences designed to provide educational opportunities that lead to the following learning outcomes for students:

1. The ability to comprehend and communicate ideas logically, creatively, correctly, and effectively in speaking and writing.
2. Skills in creative and critical thinking, including analysis, synthesis, evaluation, problem-solving, decision-making, and quantitative reasoning.
3. The skills necessary to identify informational needs; to seek, to access, to evaluate and to apply information effectively, using print materials and technology creatively, effectively and responsibly.
4. An understanding of the complexities presented by the cultural, social, and environmental diversity of the world.
5. Responsibility for ethical and active participation in a diverse society.
6. The basic skills necessary for lifelong learning, fitness, creative expression, aesthetic appreciation, personal growth, interpersonal skills, and development of intellectual curiosity.
7. Acquisition of the knowledge and skills necessary in chosen disciplines and careers.

NOTE: See Plan A, **page 34** for specific course requirements.

General Education Categories

A. Natural Sciences

Courses in the natural sciences examine the physical universe, its life forms, and its natural phenomena. They assist in developing an appreciation and understanding of the scientific method and encourage an understanding of the relationships between science and other human activities. This category includes introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, physics, physical geography, physical anthropology, and other scientific disciplines.

B. Social and Behavioral Sciences

Courses in the social and behavioral sciences focus on people as members of society. They assist in developing an awareness of the methods of inquiry used by the social and behavioral sciences. Critical thinking is stimulated about the ways people act and have acted in response to their societies, and appreciation is developed of how societies and social groups operate. This category includes introductory or integrative survey courses in cultural anthropology, economics, history, political science, psychology, sociology, cultural geography, and related disciplines.

C. Humanities

Courses in humanities study the cultural activities and artistic expressions of human beings. They assist in developing an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation, and in developing aesthetic understanding and an ability to make value judgments. This category includes introductory or integrative courses in the arts, foreign languages, literature, philosophy and religion.

D. Cultural Breadth

Courses meeting the cultural breadth requirement represent both global and national perspectives and recognize the value of systemic historical and cross-cultural examinations of race, ethnicity, gender, and global issues.

1. **Ethnic Studies/Women's Studies**
   Courses meeting the Ethnic Studies/Women's Studies requirement focus on the cultural perspectives of the African American, the Asian American, the Chicano/Latino, and the Native American and women in the United States. They assist students to deal constructively with issues of difficult differences and to develop respect for and become aware of the views, interactions, and contributions of these ethnic groups and women to U.S. society and culture. This category is interdisciplinary and includes introductory courses that incorporate the voices of these historically excluded groups.
2. **International Perspective**
   Courses in International Perspective include an emphasis on global perspectives in a cultural context. All courses need to address not just specific aspects of culture but also a component addressing the basic concepts of culture including how culture influences environment, behavior, structure, and function of society. These courses also include a multi-country perspective.

E. Language and Rationality

Courses in language and rationality develop the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation of communication in whatever symbol system the student uses.

F. Lifelong Understanding and Self-Development

The courses in this category are designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities. In a social context, students will benefit from study about themselves and how they function at different stages of life. Instruction is intended to include consideration of such matters as human behavior, sexuality, nutrition, health, stress, key relationships of humankind to the social and physical environment, and implications of death and dying. Physical activity courses could be included, provided that they include some components of the above listed topics.

NOTE: See page 29 for requirements for Associate Degrees for Transfer (AA-T and AS-T).

I. Unit and Residency Requirements

60 UNITS, with at least a 2.0 grade point average. At least 12 of the units must be earned at the college. At least 6 of those units must be in courses required for the major unless students are earning an Associate Degree for Transfer.

II. General Education Requirements

24 semester units of general education which include one course or more as indicated in group requirements A, B, C, D, E, and F. See Plan A, **page 34** for specific course requirements.

Non degree applicable courses may **not** be used for graduation requirements.

Courses from the major may be used to satisfy areas A-F.

NOTE: The requirements in parts II, IV, and V also may be met by CSU general education certification*, IGETC certification, or by submitting a transcript showing completion of a bachelor's degree from a regionally accredited institution. The requirements in parts II, IV, and V may also be met by submitting a transcript showing completion of an Associate of Arts or Associate of Science degree from a regionally accredited California institution within a ten-year period of finishing major requirements (III) at the college.

* If Business 130 is used to meet CSU-GE Area B4-Mathematics/ Quantitative Reasoning, then the associate degree math proficiency may not be met. Students must meet one of the math proficiency requirements in section IV below.

III. Major Requirements

Each degree and certificate program specifies courses required for the major (a minimum of 18 units). Students must complete these courses with a grade of C or better. See Instructional Programs Section. Courses in the student's major may not be taken under the Pass/No Pass policy except for major courses for Associate Degrees for Transfer courses for which Pass/No Pass is the only grading option, and units earned through credit by examination or assessment.

IV. Required Proficiencies

Note: The proficiencies and requirements listed in IV. Required Proficiencies and V. Oral Communication Requirement may also be used to meet General Education Requirements in groups A through F where appropriate. **Courses taken to meet proficiencies must be completed with a grade of C or better.**

A. Reading

The Reading Proficiency will be considered met by earning a C or better in English 101 or English 101H.

B. Mathematics

Completion of Mathematics 083/084 or any other Mathematics course of 3 or more units, numbered above the level of 083/084, or Psychology 210, OR

Recommended placement into Math 140, Math 150, Math 162, Math 180, or Math 219, and without the recommendation of taking a course that provides additional support, based on the Santa Ana College Mathematics Department multiple measures placement criteria; OR

A score of 3 or better on the following AP exams: Statistics, Calculus AB, Calculus BC, Computer Science Principles (Note: Meets Area B4 on CSU-GE plan).

V. Oral Communication Requirement

Completion of 3 units with a grade of "C" or better from the following:

Communication Studies 101 or 101H (Interpersonal Communication);

Communication Studies 102 or 102H (Public Speaking);

Communication Studies 140 (Argumentation and Debate);

Communication Studies 145 (Group Dynamics);

Communication Studies 152 (Oral Interpretation).

Petition for Graduation and Catalog Rights

Petitions for graduation should be filed in the Office of Admissions and Records during the semester the student expects to graduate. Students who maintain continuous enrollment in at least one regular semester or session of a catalog year (fall, intersession, spring, or summer) at Santa Ana College or Santiago Canyon College may elect to meet the associate degree or certificate requirements in the SAC Catalog in effect at the time of first enrollment, or may choose the catalog requirements from any one year of subsequent continuous enrollment. **A student who has an interruption of attendance must use the catalog at the time of readmission or one of subsequent continuous enrollment.** Commencement exercises are held once a year at the end of the spring semester for those students who complete the requirements for graduation during the year or the summer session.

NOTE: Official Transcripts from all colleges attended must be on file in the Admissions and Records office.

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE

PLAN A: 2020-2021

NOTE: This plan does not apply to Associate Degrees for Transfer (AA-T and AS-T).

NOTE: **See page 33** for specific requirements for the following:

IV. A. Reading Proficiency
B. Mathematics Proficiency
V. Oral Communication Requirement

Courses taken to meet these proficiencies/requirement must be completed with a grade of "C" or better.

Note: A single course may be used to meet only one category requirement (A-F) in Section II. However, a course may be used to meet both a required proficiency (IV) or requirement (V), as well as one of the categories of General Education Courses on Plan A (II). Courses which meet the requirements for Part II of Plan A at Santiago Canyon College will automatically meet the identical requirements for Part II of Plan A at Santa Ana College.

II. Required General Education Courses

A. Natural Sciences (minimum 3 semester units)
Anthropology 101, 101L
Astronomy 109, 110 or 110H, 140
Biology 109 or 109H/109L, 111, 115, 149, 177, 190, 190L, 200, 211, 239, 259
Chemistry 109, 119, 209, 210, 219 or 219H
Earth Science 110 or 110H, 115, 150 or 150H
Environmental Studies 140, 200, 259
Geography 101, 101L, 130
Geology 101, 101L, 140, 150 or 150H, 201
Physical Science 117, 118
Physics 109, 210, 217, 279
Psychology 200

B. Social and Behavioral Sciences
(minimum 6 semester units)

1. American Institutions (minimum 3 semester units)
History 118, 120 or 120H, 121 or 121H, 122
Political Science 101 or 101H
2. Social Science Elective (minimum 3 units)
Anthropology 100 or 100H
Child Development 107, 110
Criminal Justice 101 or 101H
Economics 120, 121
Geography 100 or 100H, 102 or 102H, 140, 155
History 101 or 101H, 102 or 102H
Law 100
Political Science 101 or 101H
Psychology 100 or 100H
Sociology 100 or 100H

C. Humanities (minimum 3 semester units)
American Sign Language 110, 111, 116, 210, 211
Anthropology 104 or 104H
Art 100 or 100H, 101, 102, 105, 107, 110
Communications and Media Studies 103, 105 or 105H, 111
Dance 100 or 100H, 105
Digital Media 101, 103, 104
English 104 or 104H
Foreign Language:
Chinese 101, 102
French 101, 102, 201 or 201H, 202 or 202H
Italian 120, 121
Japanese 101, 102
Spanish 101 or 101H, 102 or 102H, 195A, 195B, 201 or 201H, 202 or 202H
Vietnamese 101, 102
Interdisciplinary Studies 121, 200
Kinesiology, Professional 170
Literature:
Communications & Media Studies 110
English 102 or 102H, 231, 232, 233ABC, 241, 242, 243, 270, 271, 272
Music 101 or 101H, 102 or 102H, 104, 105, 110, 111
Philosophy 106 or 106H, 108, 112, 118
Theatre Arts 100, 105, 120, 123

D. Cultural Breadth
(Three semester units required from D1 or D2)

D1. Ethnic Studies/Women's Studies
American Sign Language 116
Anthropology 104 or 104H, 125
Art 103, 104, 106
Asian American Studies 101
Black Studies 101
Chicano Studies 101
Child Development 221
Communication Studies 103 or 103H, 206 or 206H
English 104 or 104H, 245, 246, 278
Ethnic Studies 101 or 101H, 102 or 102H
History 123, 124 or 124H, 125, 127, 146, 150, 151, 153, 163, 181
Kinesiology, Health Education 102
Music 103
Nutrition and Food 120
Political Science 235
Psychology 170
Women's Studies 101, 102

D2. International Perspective
Anthropology 100 or 100H
Business 106
Criminal Justice 209
Dance 105
English 271, 272
Geography 100 or 100H, 102
Interdisciplinary Studies 117H
Kinesiology, Professional 150
Music 102 or 102H
Philosophy 112
Theatre Arts 105

E. Language and Rationality
(minimum 6 semester units)

1. English Composition (minimum 3 semester units)
Courses fulfilling the written composition requirement include both expository and argumentative writing. The English composition requirement may be met by completing English 101 or 101H with a grade of "C" or better.

2. Communication and Analytical Thinking
(minimum 3 semester units)
Includes mathematics, logic, statistics, computer languages and programming and related disciplines.
Business 130
Communication Studies 102 or 102H, 140, 145
Computer Science 100, 105
Counseling 144
English 102 or 102H, 103 or 103H
Mathematics 083, 084, 105, 140, 141, 145, 150, 162, 170, 180 or 180H, 185, 204, 219 or 219H, 221, 280, 287
Philosophy 110 or 110H, 111
Psychology 210
Reading 101, 101X, 102, 150

F. Lifelong Understanding and Self-Development
(minimum 3 semester units)
Note: Take one course from each group. No more than one semester unit may be counted from F2. Three semester units for Health Education and one semester unit for Kinesiology may be granted on the basis of military service. **See page 62** for additional information.

1. Completion of one of the following:
Child Development 107
Counseling 100, 116, 120, 124, 125, 128
Entrepreneurship 100
Fashion Design Merchandising 103
Interdisciplinary Studies 155
Kinesiology, Health Education 101, 102, 103, 104, 108
Kinesiology, Professional 125, 160
Library and Information Studies 100
Mathematics 030
Nutrition and Food 115 or 115H
Philosophy 111
Psychology 140, 160, 230
Sociology 112
Study Skills 109

2. Completion of one of the following:
Dance 102, 201A, 201B, 206A, 206B, 219A, 219B
Kinesiology, Activities 107A, 107B, 107C, 123, 140A, 150A, 155A, 160A, 169A, 169B, 170A, 200A, 200B, 200C, 211A, 211B, 220A, 220B, 220C, 226A, 230A, 260A, 260B, 260C, 265A, 265B, 265C, 270A, 290A, 290B
Kinesiology, Adapted Activities 201A, 202A, 202B, 205A, 208A, 208B, 211A, 211B
Kinesiology, Aerobic Fitness 140A, 143A, 144A, 146A, 146B, 150A, 156A, 156B, 157A
Kinesiology, Aquatics 201A, 201B
Kinesiology, Fitness 112A, 112B, 112C, 114A, 114B, 115A, 115B, 115C, 147A, 147B
Kinesiology, Intercollegiate Athletics 125, 128, 133, 171, 201,202, 204, 206, 209, 210, 211, 212, 213, 216, 217, 218, 219, 220, 221, 223, 227, 230, 231, 232, 235, 240, 261, 262, 270, 271, 281, 291, 293
Kinesiology, Professional 155, 165, 175, 195, 200, 275

This requirement (F) is met for Fire Technology (as long as Fire Technology 121 and 121L are taken as part of the program), Nursing, and Occupational Therapy Assistant by completion of the major.

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION BREADTH (CSU GE)

PLAN B: 2020-2021

NOTE: These requirements apply to all students. Students planning to graduate from one of the 23 campuses of the California State University must complete 48 semester units in general education breadth courses. A student may complete 39-40 units of general education at Santa Ana College prior to transfer. Nine semester units of general education coursework must be completed at the upper division level after transfer.

CERTIFICATION OF GENERAL EDUCATION

1. Santa Ana College is authorized to certify a maximum of 39-40 general education units.
2. CSU-GE Certification indicates that a transfer student has met CSU lower division GE requirements. Students may earn full or subject area certification.
3. Pass/No Pass grades are accepted for certification in all areas; however, they are not recommended for transfer credit in basic skill areas. (A. English language, Communication and Critical Thinking, A1, A2, and A3; and B4. Mathematics/Quantative Reasoning.) In addition, letter grades may be recommended or required for specific courses in a given major. Each CSU campus may also limit the total number of units graded credit.
4. A single course may not meet more than one general education requirement.
5. Requests for certification should be made to the Office of Admissions and Records during the semester prior to the last term of attendance. Please consult the class schedule or the Counseling Department for deadline information.
6. Certification of coursework from other colleges will be granted to students whose last community college of attendance prior to transfer is Santa Ana.
7. Courses taken at other California Community Colleges will be applied to the subject areas in which they were listed by the institution where the course was completed.
8. Courses taken at other regionally accredited private/ out of state institutions (which do not maintain a CSU certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information. Courses completed at foreign institutions are not acceptable for certification.
9. Students earning an AS-T in Biology must complete CSU-GE Breadth for STEM. See "Associate Degrees for Transfer" on **page 29** for additional information.

IMPORTANT NOTE: The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet general education-breadth requirements will be honored **if they are approved for the academic year in which they are taken. Courses on this list are approved beginning Fall 2020 and are valid through Summer 2021.**

TRANSFER CREDIT

Students may transfer up to 70 semester units to the CSU system. Sixty transferable units are needed for junior standing. All courses used for CSU transfer credit must be numbered 100 or above in the Santa Ana College catalog.

A. English Language Communication and Critical Thinking

(minimum 9 semester/12 quarter units)

The 9 units selected from this area must include at least one course each from A1, A2, and A3. Each course must be completed with a grade of "C" or better.

A1: Oral Communication

Communication Studies 101 or 101H, 102 or 102H, 103 or 103H, 140, 145

A2: Written Communication

English 101 or 101H

A3: Critical Thinking

Communication Studies 140

Counseling 144

English 102 or 102H (102 and 102H not accepted in A3 if completed prior to Fall 2011), 103 or 103H

Philosophy 110 or 110H, 111

Reading 150

B. Scientific Inquiry and Quantitative Reasoning

(minimum 9 semester/12 quarter units)

The 9 units selected from this area must include at least one course each from B1, B2, and B4. The 9 units must also include a corresponding lab component. (Lab classes are in **bold**.) Courses in B4 must be completed with a grade of "C" or better.

B1: Physical Science

Astronomy **109, 110** or **110H**

Chemistry **109, 115, 119, 209, 210, 219** or **219H, 229**

Earth Science 110 or 110H, **115**, 150 or 150H

Environmental Studies 140

Geography 101, 130

Geology 101, 140, 150 or 150H, **201**

Physical Science **115**, 117

Physics **109, 210, 211, 217, 227, 237, 279, 289**

B2: Life Science

Anthropology 101

Biology 109 or 109H, **111, 115, 139, 149,** 177, 190, **211, 212, 214, 229, 239, 249, 259**

Environmental Studies **259**

Psychology 200 (Fall 2017 or later completion)

B3: Laboratory Activity
Anthropology **101L**
Astronomy **140**
Biology **109L, 111, 115, 139, 149, 190L, 211, 212, 214, 229, 239, 249, 259**
Chemistry **109, 115, 119, 209, 210, 219 or 219H, 229**
Earth Science **115**
Environmental Studies **259**
Geography **101L**
Geology **101L, 201**
Physics **109, 210, 211, 217, 227, 237, 279, 289**
Physical Science 115, **118**

B4: Mathematics/Quantitative Reasoning
Courses must be completed with a grade of "C" or better.
Business 130 (Fall 2019 or later completion) (Does not meet the Math Proficiency requirement for AA and AS degrees)
Mathematics 105, 140, 141, 145, 150, 162, 170, 180 or 180H, 185, 204, 219 or 219H, 221, 280, 287
Psychology 210

C. Arts and Humanities
(minimum 9 semester/12 quarter units)
This area must include one course from C1 and one course from C2.

C1: Arts: Art, Cinema, Dance, Music, Theatre
Art 100 or 100H, 101, 102, 103, 104, 105, 106, 107 108
Communications & Media Studies 103
Dance 100 or 100H, 102,105
Digital Media 103, 104
English 233A, 233B, 233C
Interdisciplinary Studies 121
Music 101 or 101H, 102 or 102H, 103, 104, 105, 110 (Fall 2015 or later completion), 111
Photography 150
Theatre Arts 100, 105, 120, 123

C2: Humanities: Literature, Philosophy, Languages Other Than English
American Sign Language 110, 111, 116, 210
Chinese 101, 102
English 102 or 102H, 220, 231, 232, 233A, 233B, 233C, 241, 242, 243, 245, 246, 270, 271, 272, 278
French 101, 102, 201 or 201H, 202 or 202H
History 101 or 101H, 102 or 102H, 150, 151, 153, 163
Interdisciplinary Studies 200
Italian 120, 121
Japanese 101, 102
Kinesiology, Professional 170
Philosophy 106 or 106H, 108, 112, 118
Spanish 101 or 101H, 102 or 102H, 195A, 195B, 201 or 201H, 202 or 202H
Vietnamese 101, 102

D. Social Sciences
(minimum 9 semester/12 quarter units)
The 9 units selected from this area must include courses from at least 2 different disciplines.
Anthropology 100 or 100H, 103, 104 or 104H, 105, 125
Asian American Studies 101
Biology 200
Black Studies 101
Chicano Studies 101
Child Development 107, 110
Communication Studies 103 or 103H, 206 or 206H
Communications & Media Studies 105 or 105H, 111
Computer Science 100
Counseling 150
Criminal Justice 101 or 101H
Economics 120, 121
English 104 or 104H, 245, 278
Environmental Studies 200
Ethnic Studies 101 or 101H, 102 or 102H
Geography 100 or 100H, 102, 140
History 101 or 101H, 102 or 102H, 105, **118, 120 or 120H, 121 or 121H, 123, 124 or 124H,** 125, **127,** 133, **146**, 150, 151, 153, 163, 181
Interdisciplinary Studies 117H, 155
Kinesiology, Professional 150
Law 100
Political Science 101 or 101H, 200 or 200H, 201, 220, 235
Psychology 100 or 100H, 140, 157, 160, 170, 200, 219, 230, 240, 250
Sociology 100 or 100H, 112, 140 or 140H, 240
Women's Studies 101, 102

NOTE: The CSU graduation requirement in UNITED STATES HISTORY, CONSTITUTION AND AMERICAN IDEALS may be met by completing Political Science 101 or 101H and one U.S. History course from the following:
History 118, 120 or 120H, 121 or 121H, 123, 124 or 124H, 127, 146.
These courses (in **bold** in area D above) may also be used to meet 6 of the 9 Area D unit requirements.

E. Lifelong Learning and Self-Development
(minimum 3 semester/4 quarter units)
Three units should be selected from below with no more than one unit from E2. Three units of credit are allowed in E for former military personnel with a DD-214.

E1:
Child Development 107, 229
Communication Studies 104
Counseling 100, 116, 120, 124, 125, 128
Interdisciplinary Studies 155
Kinesiology, Health Education 101, 102, 103, 104
Kinesiology, Professional 125
Nutrition and Food 115 or 115H
Psychology 140, 157, 230
Sociology 112
Study Skills 109 (Fall 2013 or later completion)

E2:
Kinesiology, Activities 107A, 107B, 107C, 123, 140A, 150A, 155A, 160A, 169A, 169B, 170A, 200A, 200B, 200C, 211A, 211B, 220A, 220B, 220C, 226A, 230A, 260A, 260B, 260C, 265A, 265B, 265C, 270A, 290A, 290B
Kinesiology, Adapted Activities 201A, 202A, 202B, 205A, 208A, 208B, 211A, 211B
Kinesiology, Aerobic Fitness 140A, 143A, 144A, 146A, 146B, 150A, 156A, 156B, 157A
Kinesiology, Aquatics 201A, 201B
Kinesiology, Fitness 112A, 112B, 112C, 114A, 114B, 115A, 115B, 115C, 147A, 147B
Kinesiology, Intercollegiate Athletics 125, 128, 133, 171, 201, 202, 204, 206, 209, 210, 211, 212, 213, 216, 217, 218, 219, 220, 221, 223, 227, 235, 240, 261, 262, 270, 271, 281, 291, 293

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

PLAN C: 2020-2021

Completion of all the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from Santa Ana College to a campus in either the CALIFORNIA STATE UNIVERSITY or the UNIVERSITY OF CALIFORNIA system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements.

1. It is generally recommended that students complete all the listed requirements for IGETC prior to transferring. Students may obtain partial certification, however, by completing all but 1-2 courses. Consult a counselor for additional information.
2. **Complete all courses used for IGETC certification with a minimum grade of C (C minus is not acceptable.)** A "pass" is acceptable providing it is equivalent to a grade of C or higher. The catalog must reflect this policy.
3. Request certification from the last California community college attended prior to transfer to CSU or UC. Requests should be made to the Office of Admissions and Records during the semester prior to the last term of attendance. Please consult the class schedule or a counselor for deadline information.
4. Prior to requesting certification, have all official transcripts on file from every high school and college attended.
5. Courses taken at other California community colleges will be applied to the subject areas in which they are listed by the institution where the work was completed.
6. Courses taken at other regionally accredited private/ out of state institutions (which do not maintain an IGETC certification list) will be placed in the subject areas for which Santa Ana College has equivalent courses. Equivalency is determined by Santa Ana College faculty. Petitions are available from the Counseling Division and must be accompanied by the appropriate documentation. In some cases non-equivalent courses may also be considered. Consult a counselor for additional information.
7. Courses completed at foreign institutions (without US regional accreditation) are not acceptable except for certification of competence in a language other than English.
8. Students earning an AS-T in Biology or Chemistry must complete IGETC for STEM. See "Associate Degrees for Transfer" on **page 29** for additional information.

IMPORTANT NOTE: The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet IGETC requirements will be honored **if they are approved for the academic year in which they are taken. Courses on this list are approved beginning Fall 2020 and are valid through Summer 2021.**

TRANSFER CREDIT

Students may transfer up to 70 semester units to the UC or CSU system. Sixty transferable units are needed for junior standing.

All courses used for CSU transfer credit must be numbered 100 or above in the Santa Ana College catalog. All courses used for UC transfer credit can be found on **page 52**.

AREA 1 - ENGLISH COMMUNICATION

C.S.U.: 3 courses required, one from each group.

U.C.: 2 courses required, one each from Group A and B.

Group A: English Composition

1 course, minimum 3 semester/4-5 quarter units.

English 101** or 101H**

Group B: Critical Thinking-English Composition

1 course, 3 semester/4-5 quarter units.

English 102** or 102H** (102 and 102H not accepted in 1B if completed prior to Fall 2011)

English 103** or 103H**

Philosophy 110** or 110H**

Group C: Oral Communication (CSU ONLY)

1 course, 3 semester/4-5 quarter units.

Communication Studies 102, 103** or 103H**, 140, 145

AREA 2A - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

1 course, 3 semester/4-5 quarter units.

Math 105, 140**, 141, 145, 150**, 170**, 180** or 180H**, 185, 219** or 219H**, 221, 280, 287; Psychology 210

AREA 3 - ARTS AND HUMANITIES

3 courses, 9 semester/12-15 quarter units, with at least one course from Group A and one course from Group B.

Group A: Arts (minimum 1 course)

Art 100** or 100H**, 101, 102, 103, 104, 105, 106, 107, 108

Communications & Media Studies 103

Dance 100** or 100H**, 102, 105

Digital Media 103, 104

Interdisciplinary Studies 121

Music 101** or 101H**, 102** or 102H**, 103, 104, 105, 111

Photography 150

Theatre Arts 100, 105, 120, 123 (Fall 2020 or later completion)

Group B: Humanities (minimum 1 course)

American Sign Language 111, 116, 210

Chinese 102

English 102** or 102H**, 220, 231, 232, 233A or 233B or 233C, 241, 242, 243, 245, 246, 270 (Fall 2020 or later competion), 271, 272, 278

French 102, 201** or 201H**, 202** or 202H**

History 101** or 101H**, 102** or 102H**, 150, 151, 153, 163*

Interdisciplinary Studies 200

Italian 121

Japanese 102

Philosophy 106** or 106H**, 108, 112, 118

Spanish 102** or 102H**, 195A, 195B, 201** or 201H**, 202** or 202H**

Vietnamese 102

AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES

3 courses, 9 semester/12-15 quarter units from at least 2 disciplines or an interdisciplinary sequence.

Anthropology 100** or 100H**, 103, 104** or 104H**, 105, 125
Asian American Studies 101
Biology 200
Black Studies 101
Chicano Studies 101
Child Development 107**
Communication Studies 206** or 206H**
Communications & Media Studies 105** or 105H**, 111
Criminal Justice 101 or 101H
Economics 120, 121
English 104** or 104H**
Environmental Studies 200
Ethnic Studies 101** or 101H**, 102** or 102H**
Geography 100** or 100H**, 102**, 140
History 101**, 101H**, 102**, 102H** (101, 101H, 102, 102H Fall 2013 or later completion), 105, 118, 120** or 120H**, 121** or 121H**, 123, 124** or 124H**, 125, 127, 133, 146, 163*, 181
Interdisciplinary Studies 117H, 155
Law 100 (Fall 2020 or later completiion)
Political Science 101** or 101H**, 200** or 200H**, 201, 220, 235
Psychology 100** or 100H**, 140, 157**, 160, 170, 200, 219, 230, 240, 250
Sociology 100** or 100H**, 140** or 140H**, 240
Women's Studies 101, 102

AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES

At least 2 courses, 7-9 semester/9-12 quarter units with one Physical Science course and one Biological Science course; at least one must include a corresponding laboratory (Group C)

Group A: Physical Science (1 course)

Astronomy 109, 110** or 110H**
Chemistry 109**, 115, 119**, 209**,210, 219** or 219H**, 229
Earth Science 110** or 110H**, 115**, 150** or 150H**
Environmental Studies 140
Geography 101**, 130
Geology 101**, 140, 150** or 150H**, 201
Physical Science 115, 117**
Physics 109**, 210**, 211**, 217**, 227**, 237**, 279**, 289**

Group B: Biological Science (1 course)

Anthropology 101
Biology 109** or 109H**, 111, 115, 139**, 149 (Fall 2017 or later completion), 177, 190, 211**, 212, 214, 229**, 239, 249, 259
Environmental Studies 259
Psychology 200 (Fall 2017 or later completion)

Group C: Laboratory Activity

Anthropology 101L
Astronomy 140
Biology 109L, 111, 115, 139**, 149 (Fall 2017 or later completion), 190L, 211**, 212, 214, 229**, 239, 249, 259
Chemistry 109**, 115, 119**, 209**, 210, 219** or 219H**, 229
Earth Science 115**
Environmental Studies 259
Geography 101L
Geology 101L, 201
Physical Science 115, 118**
Physics 109**, 210**, 211**, 217**, 227**, 237**, 279**, 289**

AREA 6A - LANGUAGE OTHER THAN ENGLISH (U.C. ONLY)

Satisfactory completion of two years of high school coursework in one language other than English with grades of "C" or better***;

OR

Completion of one of the following: American Sign Language 110, 111, 112; Chinese 101; French 101, 102, 201, 201H, 202, 202H; Italian 120; Japanese 101, 102; Spanish 101, 101H, 102, 102H, 201, 201H, 202, 202H; Vietnamese 101, 102.

OR

Satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English;

OR

Satisfactory score in examinations of languages other than English as follows:

3 or higher on College Board Advanced Placement Examination, 5 or higher on International Baccalaureate Higher Level Examination; SAT II: Subject Tests (see counselor for required scores); A, B, or C on "0" Level exam; 5, 6, 7 or A, B, or C on "A" Level exam;

OR

Satisfactory completion of an achievement test administered by a college in language other than English equivalent to two years of high school language. If an achievement test is not available, a SAC faculty member may verify competency.

AMERICAN INSTITUTIONS REQUIREMENT

(Not part of IGETC. May be completed prior to transfer.)

CSU has an American Institutions graduation requirement that is separate from IGETC. Courses used to meet the CSU requirement **can** usually also be used in Area 3 or 4. (This is at the discretion of each CSU campus.) To meet the CSU requirement, students should take Political Science 101** or 101H** **AND** one of the following courses: History 118, 120**, 120H**, 121**, 121H**, 123, 124**, 124H**, 127, 146.

UC requires the completion of a college course or courses with a grade of "C" or better **OR** a one-year course in high school in U.S. History or a half-year course in U.S. History and a half-year course in American Government with grades of "C" or better (UCLA requires grades of "B"). UCSB requires the completion of a college course. If you are using college coursework to satisfy this requirement, check the appropriate UC catalog to determine which course(s) to take.

* Courses designated with an asterisk may be counted in one area only.

** Indicates that transfer credit may be limited by either UC or CSU or both. Please **see page 52** for additional information.

*** High School transcript must be on file in the admissions office. Please consult with a counselor for additional information.

ADVANCED PLACEMENT POLICIES

Per the following chart students at Santa Ana College may be awarded units of credit for Advanced Placement exams passed with a score of 3, 4, or 5. Although credit awarded through advanced placement may be used to satisfy Santa Ana College graduation requirements, it cannot be used to satisfy the twelve unit residency requirement. Students who have earned credit from an AP exam should not take a comparable college course since credit will not be granted for both. Students should submit official copies of Advanced Placement Examination test scores to the Admissions and Records office for evaluation. Students are strongly advised to check with a SAC counselor and/or the Admissions Office of their transfer campus to determine how the AP exam will be used to meet requirements at their transfer institution as policies may differ from SAC's.

Advanced Placement Exam	**SAC Course(s)/ Units Awarded (can also be used on Plan A)**	**CSU-GE (Plan B) Certification Area/ Semester Units Awarded[1]**	**CSU Minimum Semester Units Granted[2]**	**IGETC (Plan C) Certification Area/ Semester Units Awarded[3]**	**UC Minimum Semester Units Granted[4]**
Art History	ART 101 and 102 6 units	Area C1 or C2[5] 3 units	6 units	Area 3A or 3B[5] 3 units	5.3 units
Studio Art: Drawing	ART 130 3 units	N/A	3 units	N/A	5.3 units (5.3 units maximum combined credit for all three Studio Art exams)
Studio Art: 2-D Design	ART 110 3 units	N/A	3 units	N/A	5.3 units (5.3 units maximum combined credit for all three Studio Art exams)
Studio Art: 3-D Design	ART 111 3 units	N/A	3 units	N/A	5.3 units (5.3 units maximum combined credit for all three Studio Art exams)
Biology	BIOL 109 3 units	Area B2 and B3 4 units	6 units	Area 5B and 5C 4 units	5.3 units
Calculus AB	MATH 180 4 units	Area B4 3 units	3 units (only one Calculus or Computer Science exam may be applied toward CSU degree)	Area 2A 3 units	2.6 units (5.3 units maximum combined credit for both Calculus exams)
Calculus BC	MATH 180 and 185 8 units	Area B4 3 units	6 units (only one Calculus or Computer Science exam may be applied toward CSU degree)	Area 2A 3 units	5.3 units (5.3 units maximum combined credit for both Calculus exams)
Calculus BC/AB Subscore	MATH 180 4 units	Area B4 3 units	3 units (only one Calculus or Computer Science exam may be applied toward CSU degree)	Area 2A 3 units	2.6 units (5.3 units maximum combined credit for both Calculus exams)
Chemistry	CHEM 219 5 units	Area B1 and B3 4 units (6 units if passed prior to F '09)	6 units	Area 5A and 5C 4 units	5.3 units
Chinese Language and Culture	Plan A Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	5.3 units
Computer Science A	CMPR 121 3 units (with SAC CMPR department approval)	N/A	3 units (only one Computer Science or Calculus exam may be applied toward a CSU degree)	N/A	5.3 units (Student entering UC Fall 2018 or after) (1.3 units for students entering UC prior to Fall 2018)
Computer Science AB	CMPR 121 and 131 6 units (with SAC CMPR department approval)	N/A	6 units (only one Computer Science or Calculus exam may be applied toward a CSU degree)	N/A	2.6
Computer Science Principles	N/A	Area B4 3 units	6 units	N/A	5.3 units

Advanced Placement Exam	SAC Course(s)/ Units Awarded (can also be used on Plan A)	CSU-GE (Plan B) Certification Area/ Semester Units Awarded[1]	CSU Minimum Semester Units Granted[2]	IGETC (Plan C) Certification Area/ Semester Units Awarded[3]	UC Minimum Semester Units Granted[4]
Economics: Macroeconomics	ECON 120 3 units	Area D, 3 units	3 units	Area 4 3 units	2.6 units
Economics: Microeconomics	ECON 121 3 units	Area D, 3 units	3 units	Area 4 3 units	2.6 units
English: Language and Composition	ENGL 101 4 units	Area A2 3 units	6 units	Area 1A 3 units	5.3 units (5.3 units maximum combined credit for both English exams)
English: Literature and Composition	ENGL 101 4 units	Area A2 and C2 6 units	6 units	Area 1A or 3B[5] 3 units	5.3 units (5.3 units maximum combined credit for both English exams)
Environmental Science	BIOL 200 or ENVR 200 3 units	Area B1 and B3 4 units (B1 and B3, or B2 and B3 if test taken prior to F '09)	4 units	Area 5A and 5C 3 units	2.6 units
French Language and Culture	FREN 101 and 102 10 units	Area C2, 3 units (6 units if passed prior to F'09)	6 units	Area 3B and 6A 3 units	5.3 units
French Literature	Plan A , Area C 3 units	Area C2, 3 units (Must be passed prior to F '09)	6 units	Area 3B and 6A 3 units	5.3 units
German Language and Culture	Plan A, Area C 3 units	Area C2, 3 units (6 units if passed prior to F '09)	6 units	Area 3B and 6A 3 units	5.3 units
Geography: Human	GEOG 102 3 units	Area D, 3 units	3 units	Area 4 3 units	2.6 units
Government and Politics: Comparative	POLT 201 3 units (also meets Plan A, Area B2)	Area D, 3 units	3 units	Area 4 3 units	2.6 units
Government and Politics: United States	POLT 101 3 units	Area D, 3 units and completion of the US Const. and Govt. portion of the US Hist. Const. and Am. Ideals requirement[7] (US-2)	3 units	Area 4 3 units and completion of the US Const. and Govt. portion of the CSU US Hist. Const. and Am. Ideals requirement[7] (US-2)	2.6 units
History: European	HIST 102 3 units	Area C2 or D[5] 3 units	6 units	Area 3B or 4[5] 3 units	5.3 units
History: United States	HIST 120 and 121 6 units	Area C2 or D[5] 3 units and completion of the US Hist. portion of the US Hist. Const. and Am. Ideals requirement[7] (US-1)	6 units	Area 3B or 4[5] 3 units and completion of the US Hist. portion of the CSU US Hist. Const. and Am. Ideals requirement[7] (US-1)	5.3 units
History: World	HIST 102 3 units (HIST 101 + 102 if passed prior to F '19 6 units)	Area C2 or D[5] 3 units	3 units (6 units if passed prior to F' 19)	Area 3B or 4[5] 3 units	5.3 units
Italian Language and Culture	Plan A, Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	5.3 units
Japanese Language and Culture	Plan A, Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	5.3 units
Latin Literature or Latin: Vergil	Plan A, Area C 3 units	Area C2 3 units	6 units[6] (3 units for Latin: Vergil if passed prior to F '12)	Area 3B and 6A 3 units	2.6 units

Advanced Placement Exam	SAC Course(s)/ Units Awarded (can also be used on Plan A)	CSU-GE (Plan B) Certification Area/ Semester Units Awarded[1]	CSU Minimum Semester Units Granted[2]	IGETC (Plan C) Certification Area/ Semester Units Awarded[3]	UC Minimum Semester Units Granted[4]
Latin	Plan A, Area C 3 units	Area C2 3 units	6 units	Area 3B and 6A 3 units	2.6 units (if passed May ’13 or later)
Music Theory	MUS 111 and 112 8 units	Area C1 3 units (Must be passed prior to F ’09)	6 units (Must be passed prior to F ’09)	N/A	5.3 units
Physics B (available prior to Fall ’15)	PHYS 279 and 289 8 units	Area B1 and B3 4 units[8] (prior to F ’13) (6 units if passed prior to F ’09)	6 units	Area 5A and 5C 4 units	5.3 units (5.3 units maximum combined credit for all Physics exams)
Physics 1	Plan A, Area A 4 units	Area B1 and B3 4 units[8]	4 units	Area 5A and 5C 4 units	5.3 units (5.3 units maximum combined credit for all Physics exams)
Physics 2	Plan A, Area A 4 units	Area B1 and B3 4 units[8]	4 units	Area 5A and 5C 4 units	5.3 units (5.3 units maximum combined credit for all Physics exams)
Physics C (Electricity and Magnetism)	PHYS 227 4 units (also meets Plan A, area A)	Area B1 and B3 4 units[8]	4 units	Area 5A and 5C 3 units	2.6 units (5.3 units maximum combined credit for all Physics exams)
Physics C (Mechanics)	PHYS 217 4 units	Area B1 and B3 4 units[8]	4 units	Area 5A and 5C 3 units	2.6 units (5.3 units maximum combined credit for all Physics exams)
Psychology	PSYCH 100 3 units	Area D, 3 units	3 units	Area 4 3 units	2.6 units
Seminar	N/A	N/A	3 units	N/A	N/A
Spanish Language and Culture	SPAN 101 and 102 10 units	Area C2, 3 units (6 units if passed prior to Sp ’14)	6 units	Area 3B and 6A 3 units	5.3 units
Spanish Literature and Culture	Plan A Area C 3 units	Area C2, 3 units (6 units if passed prior to Sp ’13)	6 units	Area 3B and 6A 3 units	5.3 units
Statistics	MATH 219 4 units	Area B4 3 units	3 units	Area 2A 3 units	2.6 units

[1] All CSU campuses will accept toward fulfillment of the minimum units of the designated general education breadth area if the examination is included in full or subject area certification; individual CSU campuses may choose to accept more units than those specified towards completion of general education breadth requirements.

[2] This column reflects the number of units each campus system-wide will minimally grant for each exam. These units count toward eligibility for admission. (Not all of these units may apply toward certification of the corresponding GE-Breadth area.) Some CSU campuses may award more than the minimum units listed in this column. That information can be found in each CSU catalog.

[3] Each AP exam may be applied to one IGETC area as satisfying only one course requirement, with the exception of Language Other Than English. Exams may be used regardless of when the exam was taken.

[4] This column reflects the number of units each campus system-wide will grant for each exam. These units count toward eligibility for admission.

[5] AP exam may be used in either area regardless of where the SAC discipline is located.

[6] Latin Literature 6 units if passed prior to F ’09. Latin: Vergil 3 units if passed prior to F ’12.

[7] This examination only partially fulfills the CSU US History, Constitution, and American Ideals graduation requirement but can be used toward the requirement. (Please note that no AP exam fulfills the California State and Local Government portion, US-3.) See a counselor for more information.

[8] If a student passes more than one AP exam in Physics, only six units of credit may be applied to the baccalaureate, and only four units of credit may be applied to certification of CSU GE.

THE COLLEGE-LEVEL EXAMINATION (CLEP) POLICIES

Santa Ana College will grant credit to currently enrolled students for CLEP examinations passed with a score of 50 or higher (level II languages require a higher score). Although credit awarded through CLEP may be used to satisfy Santa Ana College graduation requirements, it cannot be used to satisfy the twelve-unit residency requirement. Students who have earned credit from a CLEP exam should not take a comparable college course since credit will not be granted for both. Credit for some exams may be applied toward general education requirements for plans A and B per the following chart; however, credit may not be applied toward plan C. UC does not grant credit for CLEP examinations at this time. Use of exams for SAC prerequisite clearance and major requirements is granted according to the determination of the appropriate SAC area dean in consultation with the department. Students should see a counselor for more information and submit official copies of CLEP test scores to the SAC Admissions and Records Office. Students are strongly advised to check with a SAC counselor or their transfer campus to determine how CLEP exams will be used to meet requirements at their transfer institution as policies may differ from SAC's.

College-Level Examination Program Exam	SAC GE (Plan A) Area/Units	Total SAC Associate Degree Semester Units Granted	CSU-GE (Plan B) Certification Area/ Semester Units[1]	CSU Minimum Semester Units Granted[2]
BUSINESS				
Financial Accounting	N/A	3 units	N/A	3 units
Information Systems and Computer Applications	N/A	3 units	N/A	3 units
Introductory Business Law	N/A	3 units	N/A	3 units
Principles of Accounting	N/A	3 units	N/A	3 units
Principles of Management	N/A	3 units	N/A	3 units
Principles of Marketing	N/A	3 units	N/A	3 units
COMPOSITION AND LITERATURE				
American Literature	Area C, 3 units	3 units	Area C2, 3 units	3 units
Analyzing and Interpreting Literature	Area C, 3 units	3 units	Area C2, 3 units	3 units
College Composition	N/A	0 units	N/A	0 units
College Composition – Modular	N/A	0 units	N/A	0 units
English Composition (no Essay)	N/A	0 units	N/A	0 units
English Composition (with Essay)	N/A	0 units	N/A	0 units
English Literature	Area C, 3 units	3 units	Area C2, 3 units (must be passed prior to F '11)	3 units (must be passed prior to F '11)
Freshman College Composition	N/A	0 units	N/A	0 units
Humanities	Area C, 3 units	3 units	Area C2, 3 units	3 units
FOREIGN LANGUAGES				
French Level I	N/A	6 units[3]	N/A[3]	6 units
French Level II	Area C, 3 units (Required Score of 59)	9 units[3] (12 units if passed prior to F `15) (Required Score of 59)	Area C2[3], 3 units (Required Score of 59)	9 units (Required Score of 59) (12 units if passed prior to F '15)
German Level I	N/A	6 units[3]	N/A[3]	6 units
German Level II	Area C, 3 units (Required Score of 60)	9 units[3] (12 units if passed prior to F `15) (Required Score of 60)	Area C2[3], 3 units (Required Score of 60)	9 units (Required Score of 60) (12 units if passed prior to F '15)
Spanish Level I	N/A	6 units[3]	N/A[3]	6 units
Spanish Level II	Area C, 3 units (Required Score of 63)	9 units[3] (12 units if passed prior to F `15) (Required Score of 63)	Area C2[3], 3 units (Required Score of 63)	9 units (Required Score of 63) (12 units if passed prior to F '15)
Spanish With Writing I	N/A	6 units[3]	N/A[3]	6 units

College-Level Examination Program Exam	SAC GE (Plan A) Area/Units	Total SAC Associate Degree Semester Units Granted	CSU-GE (Plan B) Certification Area/ Semester Units[1]	CSU Minimum Semester Units Granted[2]
Spanish With Writing II	Area C, 3 units (Required Score of 63)	9 units[3] (Required Score of 63)	Area C2[3] 3 units (Required Score of 63)	9 units (Required Score of 63)
HISTORY AND SOCIAL SCIENCES				
American Government	Area B1 or B2 3 units	3 units	Area D, 3 units	3 units
History, United States I	Area B1 3 units	3 units	Area D and US-1[5] 3 units	3 units
History, United States II	Area B1 3 units	3 units	Area D, **and** US-1[5] 3 units	3 units
Human Growth and Development	Area B2 3 units	3 units	Area E1 3 units	3 units
Introduction to Educational Psychology	N/A	3 units	N/A	3 units
Introductory Psychology	Area B2 3 units	3 units	Area D, 3 units	3 units
Introductory Sociology	Area B2 3 units	3 units	Area D, 3 units	3 units
Principles of Macroeconomics	Area B2 3 units	3 units	Area D, 3 units	3 units
Principles of Microeconomics	Area B2 3 units	3 units	Area D, 3 units	3 units
Social Sciences and History	N/A	0 units	N/A	0 units
Western Civilization I	Area B2 3 units	3 units	Area C, 2 or D[4] 3 units	3 units
Western Civilization II	Area B2 3 units	3 units	Area D, 3 units	3 units
SCIENCE AND MATHEMATICS				
Biology	Area A 3 units	3 units	Area B2 3 units	3 units
Calculus	Area E2 3 units	3 units[6]	Area B4 3 units	3 units
Chemistry	Area A 3 units	3 units	Area B1 3 units	3 units
College Algebra	Area E2[6] 3 units	3 units[6]	Area B4 3 units	3 units
College Algebra – Trigonometry	Area E2[6] 3 units	3 units[6]	Area B4 3 units	3 units
College Mathematics	N/A	0 units	N/A	0 units
Natural Sciences	Area A 3 units	3 units	Area B[1] or B[2] 3 units	3 units
Pre-Calculus	Area E2 3 units	3 units[6]	Area B4 3 units	3 units
Trigonometry	Area E2 3 units	3 units[6]	Area B4 3 units (must be passed prior to F '06)	3 units (must be passed prior to F '06)

[1] All CSU campuses will accept the minimum units toward fulfillment of the designated general education breadth area if the examination is included in full or toward fulfillment subject area certification; individual CSU campuses may choose to accept more units than those specified towards completion of general education breadth requirements.

[2] This column reflects the number of units each campus system-wide will minimally grant for each exam. These units count toward eligibility for admission. Some CSU campuses may award more than the minimum units listed in this column. That information can be found in each CSU catalog.

[3] 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 associate degree or 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 credit; the higher score listed for each test is considered "Level II" and earns additional units of credit and placement in Plan A, Area C and Plan B, Area C2, as noted.

[4] CLEP exam may be used in either area regardless of where CLEP discipline is located.

[5] This examination only partially fulfills the CSU US History, Constitution, and American Ideals graduation requirement but can be used toward the requirement. (Please note that no CLEP exam fulfills the California State and Local Government portion, US-3.) See a counselor for more information.

[6] Also fulfills Santa Ana College Math Proficiency.

INTERNATIONAL BACCALAUREATE (IB) POLICIES

Per the following chart students at Santa Ana College may be awarded units of credit for International Baccalaureate Exams passed with a score of 5 or higher, unless otherwise noted. Although credit awarded through IB may be used to satisfy Santa Ana College graduation requirements, it cannot be used to satisfy the twelve-unit residency requirement. Students who have earned credit from an IB exam should not take a comparable college course since credit will not be granted for both. Students should submit official copies of International Baccalaureate Examination test scores to the Admissions and Records office. Students are strongly advised to check with a SAC counselor and/or the Admissions Office of their transfer campus to determine how the IB exam will be used to meet requirements at their transfer institution as policies may differ from SAC.

International Baccalaureate Exam	SAC GE (Plan A) Area/ Units Awarded	CSU-GE (Plan B) Certification Area/Semester Units Awarded[1]	CSU Minimum Semester Units Granted[2]	IGETC (Plan C) Certification Area/ Semester Units Awarded[3]	UC Minimum Semester Units Granted[4]
Biology HL	Area A, 3 units	Area B2, 3 units	6 units	Area 5B (without lab) 3 units	5.3 units
Chemistry HL	Area A, 3 units	Area B1, 3 units	6 units	Area 5A (without lab) 3 units	5.3 units
Economics HL	Area B2, 3 units	Area D, 3 units	6 units	Area 4, 3 units	5.3 units
Geography HL	Area B2, 3 units	Area D, 3 units	6 units	Area 4, 3 units	5.3 units
History (any region) HL	Area B2, 3 units	Area C2 or D[5] 3 units	6 units	Area 3B or 4[5] 3 units	5.3 units
Language A1 (any language) HL[7] (prior to Fall '13)	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B, 3 units	5.3 units
Language A1 (any language, except English) HL[7] (prior to Fall '13)	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B and 6A 3 units	5.3 units
Language A2 (any language) HL[7] (prior to Fall '13)	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B, 3 units	5.3 units
Language A2 (any language, except English) HL[7] (prior to Fall '13)	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B and 6A 3 units	5.3 units
Language A (any language) Literature HL	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B, 3 units	5.3 units
Language A (any language) Language and Literature HL	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B, 3 units	5.3 units
Language A (any language, except English) Literature HL	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B and 6A 3 units	5.3 units
Language A (any language, except English) Language and Literature HL	Area C, 3 units	Area C2, 3 units[6]	6 units[6]	Area 3B and 6A 3 units	5.3 units
Language B (any language) HL[7]	Area C, 3 units	N/A	6 units[6]	Area 6A, 3 units	5.3 units
Mathematics HL	Area E2[8] 3 units	Area B4, 3 units[6]	6 units[6]	Area 2A, 3 units	5.3 units
Physics HL	Area A, 3 units	Area B1, 3 units	6 units	Area 5A (without lab) 3 units	5.3 units
Psychology HL	Area B2, 3 units	Area D, 3 units	3 units	Area 4, 3 units	5.3 units
Theatre HL	Area C, 3 units	Area C1, 3 units[6]	6 units[6]	Area 3A, 3 units	5.3 units

[1] All CSU campuses will accept the minimum units toward fulfillment of the designated General Education-Breadth area if the examination is included in full or subject area certification; individual CSU campuses may choose to accept more units than those specified towards completion of general education breadth requirements.

[2] This column reflects the number of units each campus system-wide will minimally grant for each exam. These units count toward eligibility for admission. **Some CSU campuses may award more than the minimum units listed in this column.** That information can be found in each CSU catalog.

[3] Each IB exam may be applied to one IGETC area as satisfying only one course requirement, with the exception of Language Other Than English. Exams may be used regardless of when the exam was taken.

[4] This column reflects the minimum number of units each campus system-wide will grant for each exam. These units count toward eligibility for admission.

[5] IB exam may be used in either area regardless of where the SAC discipline is located.

[6] Score of 4 or higher required for CSU Credit.

[7] The IB curriculum offers language at various levels for native and non-native speakers. Language B courses are offered at the intermediate level for non-natives. Language A1 and A2 are advanced courses in literature for native and non-native speakers, respectively.

[8] Also fulfills Math Proficiency.

TRANSFER TO OTHER COLLEGES

This section of the catalog is designed to help students plan an academic program for transfer to a four-year college or university. It includes information about the transfer process and requirements. Universities often make changes to their requirements. Information listed in this section was up-to-date at the time of publication; however, changes may have occurred after publication. Current transfer information is available online and in the University Transfer Center and the Counseling Center at Santa Ana College.

There are four segments of higher education in California. They are:

a) The University of California (UC) system with 10 campuses;
b) The California State University (CSU) system with 23 campuses;
c) Independent colleges and universities; and
d) California Community Colleges with 115 campuses.

Santa Ana College provides the freshman and sophomore years of a four-year college or university program. SAC students can complete most or all of their lower division general education and major requirements before transferring. Students who are planning to transfer should meet with a counselor in the Counseling Center or in the University Transfer Center to develop a Student Educational Plan to insure a smooth transition to the transfer institution of their choice.

Note: Transfer students may also want to complete an associate degree or an Associate Degree for Transfer. While not always a requirement for transfer, the associate degree or Associate Degree for Transfer is generally recommended, and proper planning should enable students to satisfy both requirements for graduation from SAC and for transfer.

University Transfer Center

The University Transfer Center (UTC), which is located in S-110 at Santa Ana College, provides information and assistance to students who are preparing to transfer to a four-year university of their choice. UTC has designated counseling appointments and services for transfer bound students. During the fall and spring semesters, the University Transfer Center hosts College Fairs with representatives from California and out-of-state colleges and universities who provide admissions information to potential students. University representative appointments are also available for students as well as an up-to-date resource library and other information about transfer programs. The University Transfer Center also hosts transfer application workshops which are offered during priority filing periods. In addition, field trips to various university campuses are offered throughout the academic school year. For more information call 714-564-6165 or email **transfer_center@sac.edu**.

Transferability of Courses

Students can transfer a maximum of 70 units to a UC or CSU campus.

Many courses offered by Santa Ana College will transfer to meet general education and/or major requirements. However, some courses may transfer only as electives units.

All courses numbered 100 or above will transfer to CALIFORNIA STATE UNIVERSITY. These are also indicated in the catalog by a "CSU" at the end of the course description.

Courses which are transferable to the UNIVERSITY OF CALIFORNIA are designated on the UC Transferable Course Agreement and are also indicated in the catalog by a "UC" at the end of the course description. Some of the courses that are transferable to the University of California have credit limitations. Check the UC Transferable Course Agreement on **page 52** or at **assist.org** to determine these limitations.

INDEPENDENT AND OUT-OF-STATE COLLEGES AND UNIVERSITIES usually accept most courses that are transferable to the University of California and many of the courses acceptable at California State University campuses.

Course Requirements For Transfer Students

A student can transfer from Santa Ana College as a junior without loss of time or credits by completing the following:

1. **Lower Division Major Requirements**
   Most university majors require the completion of one or more lower division courses as preparation for the upper division. Santa Ana College offers courses to meet the lower division requirements for most transfer majors. **See page 51** for additional information.
2. **General Education Requirements**
   These are the courses required of everyone to obtain a degree regardless of major. Courses in writing, critical thinking, mathematics, sciences, arts and humanities, and the social sciences are included in general education.
3. **Electives**
   These are courses of choice taken in addition to courses for the major and general education requirements.

Honors Program Transfer Agreements

Santa Ana College Honors Program students may opt to enter into honors transfer agreements with those participating four-year colleges and universities. Each agreement is specific to the four-year institutions but most offer, at least, "priority consideration for admission" to their honors program. While Santa Ana College continues to add to the honors transfer agreement list, SAC currently has agreements with:

- California State Polytechnic University, Pomona Kellogg Honors College
- California State University, Fullerton University Honors Program
- California State University, Fullerton, Mihaylo Business Honors Program
- California State University, San Diego Weber Honors Program University of California, Irvine
- University of California, Los Angeles
- University of California, Riverside Honors Program
- University of San Francisco
- Azusa Pacific Honors College
- Brandeis University
- Chapman University
- Concordia University
- Colorado State University, Global Campus
- Connecticut College
- Gonzaga University
- Illinois Institute of Technology
- La Sierra University Honors Program
- Loyola Marymount University
- Mills College
- Occidental College
- Pitzer College
- Pomona College
- Scripps at Claremont
- Smith College
- Trinity College
- Tufts University
- University of Arizona
- University of La Verne
- Wheaton College (Massachusetts)
- Whittier College
- Williams College

New transfer agreements are added every year. For details regarding specific agreements, students may contact the Honors Coordinator at Santa Ana College, Kathy Patterson, 714-564-6528, email **sachonorstransferprogram@sac.edu** or refer to the **honorstransfercouncil.org** website.

CALIFORNIA STATE UNIVERSITY

The California State University has 23 campuses located throughout the state. While each campus within the system has its own unique geographic and curricular character, all campuses offer undergraduate and graduate instruction for professional and occupational goals as well as a broad liberal education. The CSU offers more than 1,500 bachelor's and master's degrees in some 200 subject areas. Campuses are Bakersfield, Channel Islands, Chico, Dominguez Hills, East Bay, Fresno, Fullerton, Humboldt, Long Beach, Los Angeles, Monterey Bay, Northridge, Pomona (Cal Poly), Sacramento, San Bernardino, San Diego, San Francisco, San Jose, San Luis Obispo (Cal Poly), San Marcos, Sonoma, Stanislaus, and California Maritime.

To obtain a bachelor's degree from the CSU system, a student must usually complete a minimum of 120 or more semester units. A maximum of 70 units of CSU transferable credit will be accepted for courses completed at a community college. Community college coursework completed above the 70 units may be used to meet general education, elective units, or major preparation requirements even if the units will not count toward the baccalaureate degree.

The key to a successful transfer is early planning to ensure that students complete courses that meet the admission, general education, and lower division major preparation requirements.

California State University – Admission Requirements For Transfer

I. Lower Division Transfer

An applicant who completes fewer than 60 semester (90 quarter) units of college credit is considered a lower-division transfer student.

Having fewer than 60 semester (90 quarter) units at the point of transfer may affect eligibility for registration priority at CSU campuses and may affect the student's financial aid status.

California resident transfer applicants with fewer than 60 semester or 90 quarter units must:

- have a cumulative grade point average of 2.0 (C) or better in all transferable units attempted;
- have completed, with a grade of C- or better, a course in written communication and a course in mathematics or quantitative reasoning at a level satisfying CSU General Breadth Area A2 and B4 requirements respectively;
- be in good standing at the last institution attended; and
- meet any one of the following eligibility standards:

1. Transfer Based on Current Admission Criteria

The applicant meets the freshman admission requirements in effect for the term for which the application is being filed;

- OR -

2. Transfer Based on High School Eligibility

The applicant was eligible as a freshman at the time of high school graduation and has been in continuous attendance in an accredited college since high school graduation;

- OR -

3. Transfer Based on Making Up Missing Subjects

The applicant had a qualifiable eligibility index at the time of high school graduation (combination of GPA and test scores if needed), has made up any missing college preparatory subject requirements with a grade of C- or better, and has been in continuous attendance in an accredited college since high school graduation. One baccalaureate level course of at least 3 semester (4 quarter) units is usually considered equivalent to one year of high school study.

Note: Due to enrollment pressures, most CSU campuses do not admit lower division transfers so that more upper division transfers may be accommodated.

II. Upper Division Transfer

To qualify for admission as an upper division transfer, applicants must complete 60 or more semester (90 or more quarter) transferable units and have met the following requirements:

The applicant must complete at least 30 semester (45 quarter) units of general education courses. You may visit **assist.org** for a full listing of courses at each CCC that meet CSU general education requirements.

The applicant must complete transferable courses (CSU GE category A) with grades of C- or better in written communication, oral communication and critical thinking.

The applicant must complete one transferable course (CSU GE category B4) with a grade or C- or better in mathematics or quantitative reasoning.

The applicant must have achieved a cumulative grade point average of 2.0 or better in all transferable college units attempted.

The applicant is expected to be in good standing at the last college or university attended (i.e. eligible to re-enroll at that college or university).

Note: Campuses and/or programs and class levels that are designated as being impacted have additional admission criteria. For example, a 2.0 GPA may not be high enough for campuses and majors in high demand. See **calstate.edu** (search for impaction) for additional information on impacted programs.

The CSU gives priority admission consideration to California Community College (CCC) students who meet the CSU upper-division transfer admission requirements. **However the highest admission priority is given to students who have earned an Associate Degree for Transfer (ADT)**

California State University General Education Requirements

To earn a bachelor's degree from the California State University, each student must complete a program of general education. Santa Ana College offers two general education programs that will enable students to meet the lower division general education requirements for all CSU campuses prior to transfer. Students can complete either the CSU General Education Breadth Requirements (**see page 36** of the catalog for GE Plan B) or the Intersegmental General Education Transfer Curriculum (**see page 38** of the catalog for GE Plan C). Students can also meet the general education requirements of a specific CSU campus. A few majors, such as Nursing, Engineering, Science, and other technical majors recommend students complete very specific course-work to meet general education. Consult a counselor for additional information.

Certification Of General Education For Transfer To CSU

See certification information on **page 49**.

Associate Degree For Transfer: A Pathway to the CSU Degree

The Student Transfer Achievement Reform Act (SB1440) established an Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T). The AA-T or AS-T degrees are designed to provide a clear pathway to the California State University (CSU) degree major. Please **see page 29** for additional information about these degrees.

UNIVERSITY OF CALIFORNIA

The University of California has ten campuses located throughout the state. Each campus within the system has its own unique geographic and academic character. The University offers bachelor's, master's and doctoral degrees in a variety of subject areas. Campuses of the University are located in Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco (Schools of Medicine, Dentistry and Pharmacy), Santa Barbara and Santa Cruz.

To obtain a baccalaureate degree from the UC system, a student must complete a minimum of 120 semester units (180 quarter units). A maximum of 70 units of transferable credit will be accepted for courses completed at a community college.

The key to a successful transfer is early planning to ensure that students complete courses that meet the admission, general education, and lower division major preparation requirements.

University of California – Admission Requirements For Transfer

I. Lower Division Transfer

While all UC campuses welcome a large pool of junior-level transfers, most admit only a limited number (if any) of lower division transfers. However, it can happen. Here's how:

If a student was eligible for admission to the University when he or she graduated from high school – meaning the student satisfied the Subject, Scholarship and Examination Requirements, the student is eligible for transfer if he or she has a 2.0 GPA (2.8 for non residents) in UC transferable college coursework.

If a student met the Scholarship Requirement in high school but did not satisfy the Subject Requirement, the student must take transferable college courses in the missing subjects, earn a C or better in each required course and maintain an overall 2.0 GPA (2.8 for non residents) in all transferable coursework to be eligible to transfer.

II. Upper Division Transfer

The majority of transfer students come to the University at the junior level from California Community Colleges. To be eligible for admission as a junior transfer student, a student must fulfill both of the following criteria:

1. Complete 60 semester (90 quarter) units of UC transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). No more than 14 semester (21 quarter) units may be taken Pass/Not Pass.
2. Complete the following seven course pattern, earning a grade of C or better (or Pass) in each course:
   - Two UC transferable college courses (3 semester or 4–5 quarter units each) in English composition;
   - One UC transferable college course (3 semester or 4–5 quarter units) in mathematical concepts and quantitative reasoning;
   - Four UC 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.

If a student satisfies the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring, he or she may satisfy part 3 of the transfer eligibility requirements.

Keep in mind that meeting these requirements does not guarantee admission to the campus or major of your choice. Often, admission to UC campuses or programs is extremely competitive and requires students to satisfy more demanding standards.

University of California General Education Requirements

To earn a bachelor's degree from the University of California, each student must complete a program of general education. To meet the general education requirements of the University, students can complete either the Intersegmental General Education Transfer Curriculum (**see page 38**) of the catalog for GE Plan C or individual campus general education requirements. Santa Ana College generally recommends that students follow the IGETC rather than the individual campus requirements as this will provide more flexibility when applying to transfer. **However, IGETC should generally not be used for the following:** The colleges of Engineering, Chemistry, and the Haas School of Business at **UCB**; any student preparing for a bachelor of science or selective major at **UCD**; the School of Engineering at **UCLA**; the school of Engineering **UCM**; the Marlan and Rosemary Bourns College of Engineering and the College of Natural and Agricultural Sciences may require additional coursework after enrollment at **UCR**; Revelle College may require coursework after enrollment at **UCSD**; students in the College of Engineering are encouraged to focus on major preparation rather than GE but may use IGETC at **UCSB**; Majors in the physical or biological sciences or any major in the Jack Baskin School of Engineering at **UCSC**. Students who began at a UC campus and who intend to transfer back to the same campus cannot use IGETC. UC campuses do allow students who began at another UC campus to use IGETC. Students in the above categories should follow the GE requirements of the UC campus they are transferring to. Consult a counselor for additional information.

Certification of General Education For Transfer to UC or CSU

Upon a student's request Santa Ana College will verify the completion of lower division general education requirements for transfer to the University of California (IGETC, Plan C), or the California State University (either CSU GE Breadth or IGETC, Plan B or Plan C). IGETC for STEM or CSUGE for STEM is required for students earning an associate degree for transfer in Biology or Chemistry. Students who transfer without certification will be required to meet the general education requirements of the specific UC or CSU campus to which they are transferring. Meeting these requirements usually necessitates taking additional courses.

Students who have taken courses at other colleges can have these courses used in the certification process. Santa Ana College will certify (guarantee) courses taken at other California community colleges in the IGETC or CSU GE Breadth areas designated by the offering college. Courses taken at regionally accredited California four-year colleges or out-of-state two-year or four-year colleges will be certified for IGETC or CSU GE Breadth if they are equivalent to courses on the Santa Ana College IGETC or CSU GE Breadth list respectively. In some cases non-equivalent courses may also be considered. Consult a SAC counselor for additional information. Courses from foreign institutions (without U.S. regional accreditation) cannot be used in either the CSU GE Breadth or IGETC certification process.

Students should request IGETC certification from the last California Community College they attend prior to transfer to UC or CSU. CSU GE Breadth Certification of course work from other colleges will only be granted to students whose last community college of attendance prior to transfer is Santa Ana.

Certification petition forms are available in the SAC Counseling Center and on the SAC Graduation website.**sac.edu/graduation**

Associate Degree For Transfer and the University of California

If you're working toward an AA-T or AS-T (also known as an ADT), you should choose courses that align with the requirements at the UC campuses you're interested in. Treat the ADT as your early roadmap to UC. You can use **assist.org** or UC major preparation paths: **admission.universityofcalifornia.edu/admission-requirements/transfer-requirements/transfer-pathways/** to guide you in choosing the right courses. Although earning an ADT does not guarantee admission to UC, some campuses consider it in the comprehensive review process.

INDEPENDENT AND OUT-OF-STATE COLLEGES AND UNIVERSITIES

In addition to state-supported colleges and universities in California, there are many independent institutions in the state. There are also many colleges, both private and public, located throughout the United States to which Santa Ana College students can transfer. Each of these institutions has its own unique requirements for admission. In order to determine eligibility, students should consult with the college of their choice along with a Santa Ana College counselor.

California's independent colleges and universities provide many options at the undergraduate, graduate, and professional levels for students planning to continue their education beyond the community college.

Financial aid may be a primary factor in making it possible for a student to attend an independent college or university. There are many forms of financial assistance available, such as federal, state, institutional, and private aid. Students should apply for scholarships, grants, loans, and work-study awards from all possible sources. The Free Application for Federal Student Aid (FAFSA) and the California Dream Act Application may be submitted in October for the following academic year. Filing instructions and deadlines are indicated on the web sites **fafsa.ed.gov** and **dream.csac.ca.gov** respectively. Further details and assistance are available in the Financial Aid Office.

California's private, non-profit, WASC-accredited colleges and universities include:

- American Jewish University
- Antioch University Los Angeles
- ArtCenter
- Azusa Pacific University**
- Biola University**
- Brandman University**
- California Baptist University**
- California College of the Arts
- California Institute of the Arts
- California Institute of Integral Studies**
- California Institute of Technology
- California Lutheran University**
- Chapman University
- Charles R. Drew University of Medicine and Science
- Claremont McKenna College
- Columbia College Hollywood
- Concordia University Irvine**
- Dominican University of California
- Fresno Pacific University**
- Golden Gate University**
- Harvey Mudd College
- Holy Names University**
- Hope International University
- Humphreys University**
- International Technological University
- John Paul the Great Catholic University**
- John F. Kennedy University**
- Laguna College of Art and Design
- La Sierra University**
- Life Pacific University
- Loma Linda University
- Los Angeles Pacific University**
- Loyola Marymount University
- Marymount California University**
- The Master's University
- Menlo College**
- Mills College**
- Mount St. Mary's University**
- National University**
- Notre Dame de Namur University**
- Occidental College
- Otis College of Art and Design
- Pacific Oaks College**
- Pacific Union College**
- Palo Alto University**
- Pepperdine University**
- Pitzer College
- Point Loma Nazarene University**
- Pomona College
- Providence Christian College
- Saint Mary's College of California**
- Samuel Merritt University
- San Diego Christian College**
- San Francisco Art Institute
- San Francisco Conservatory of Music
- Santa Clara University
- Saybrook University
- Scripps College
- Simpson University**
- Soka University
- Southern California Institute of Architecture
- Southern California University of Health Sciences
- Stanford University
- Thomas Aquinas College
- Touro University Worldwide
- University of La Verne**
- University of the Pacific**
- University of Redlands**
- University of Saint Katherine**
- University of San Diego
- University of San Francisco**
- University of Southern California
- University of the West**
- Vanguard University
- Western University of Health Sciences
- Westmont College**
- Whittier College**
- William Jessup University**
- Woodbury University
- Zaytuna College

**** Associate Degrees for Transfer and Independent California Colleges and Universities.**

Students can now transfer with this degree to dozens of private California colleges and universities. A full list of participating private institutions can be found at **aiccu.edu/page/transfer**

General Education Requirements For Independent And Out-Of-State Colleges And Universities

Santa Ana College has articulated general education requirements with a number of independent institutions such as Chapman University, Loma Linda University, the University of Southern California, and Pepperdine University. In addition, some independent and out-of-state colleges and universities will accept full IGETC and/or CSU GE breadth certification in lieu of their own lower division general education requirements. Students transferring to independent or out-of-state institutions should meet with a counselor in order to determine appropriate general education requirements. Information can also be found on the Santa Ana College Counseling Division website, under "Articulation."

BEGIN A TRANSFER MAJOR AT SANTA ANA COLLEGE

In order to earn a bachelor's degree, students need to select a subject area in which to specialize. This subject area is called a major. Almost every major requires that certain courses be completed during the freshman and/or sophomore years of college. These are called lower division major requirements. Many of these can be completed at SAC prior to transferring. (The highly specific courses in the major are called upper division requirements, and these are completed after transfer.) In developing a program for transfer, first consideration in most cases should be given to completing the courses required in the transfer major or as preparation for the major. Note that these requirements may differ from major requirements for the associate degree.

Below is a partial listing of majors one might choose to begin at SAC. Visit the Transfer or Counseling Centers or make an appointment with a counselor to discuss which courses should be completed at SAC to begin preparation in the chosen transfer major. In addition, **assist.org** lists required courses for many UC and CSU majors. Links to many private college and university major requirements can be foud on the SAC counseling department website under articulation. Other resources include UC Transfer Preparation Paths (**page 48**), and Associate Degrees for Transfer (**page 29**).

- Anthropology
- Art/Art History/Studio Arts
- Astronomy
- Behavioral Sciences
- Biology/Biochemistry
- Black Studies
- Botany
- *Business Administration*
- *(The following may be emphases under Business Administration or may be separate majors)*
  - Accounting
  - Business Applications
  - Business Economics
  - Finance
  - Human Resources
  - International
  - Management
  - Management/Computer Information Systems
  - Management Science
  - Marketing
- Chemical Engineering
- Chemistry
- Chicano Studies
- Child Development and Education Studies
- Civil Engineering
- Communication Studies
- Communications & Media Studies
- Communicative Disorders
- Community Social Services
- Comparative Literature
- Computer Engineering
- Computer Information Systems
- Computer Science
- Criminal Justice
- Dance
- Earth Science
- Ecology
- Economics
- Electrical Engineering
- Engineering
- Engineering Technology
- English
- Ethnic Studies
- Fashion Design Merchandising
- Film Studies
- Fire Protection Administration and Technology
- Geography
- Geology
- Graphic Design
- Health Science
- History
- Hospitality Management
- Humanities
- Industrial Engineering
- International Business
- International Studies
- Kinesiology
- Liberal Studies
- Linguistics
- Mathematics
- Mechanical Engineering
- Meteorology
- Microbiology
- Modern Languages
- Music/Musicology
- Nursing
- Nutrition and Food
- Occupational Therapy*
- Oceanography*
- Philosophy
- Physical Education/Exercise Science
- Physical Therapy*
- Physics
- Political Science
- Pre-Chiropractic
- Pre-Dentistry*
- Pre-Law*
- Pre-Medicine*
- Pre-Optometry*
- Pre-Pharmacy*
- Pre-Veterinary Medicine*
- Psychology
- Public Administration
- Radio/Television/Film
- Religious Studies
- Social Ecology
- Social Work
- Sociology
- Spanish
- Teaching**
- Theater Arts/Drama
- Urban Studies
- Women's Studies
- Zoology

* These are primarily graduate programs for which undergraduate majors can vary. Students should see a counselor to determine what undergraduate major might be appropriate.

** Undergraduate majors for those planning to teach K-12 can vary widely depending upon the subject and grade level to be taught. Students should see a counselor to determine what undergraduate major might be appropriate.

The above list is a sampling and does not represent all transfer majors at all colleges/universities.

UNIVERSITY OF CALIFORNIA (UC) TRANSFER COURSE AGREEMENT 2020-2021

This agreement lists courses transferable for unit credit at all UC campuses. This list is valid for courses completed during Fall 2019, Spring 2020 and Summer 2020. Additional courses for 2019-2020 may be approved after the publication date for this catalog.

ACCOUNTING
101, 102

AMERICAN SIGN LANGUAGE
*110+, 111+, 116+, 210, 211⌘
**Corresponds to two years of high school study*

ANTHROPOLOGY
100, 100H, 101, 101L, 103, 104, 104H, 105, 108, 125

ART
100, 100H, 101, 102, 103, 104, 105, 106, 107±, 108, 109☸, 110, 111, 121A☸, 121B☸, 122☸, 129◈, 130, 131, 132A, 132B, 140A, 140B, 141, 143, 150, 151, 152, 153, 154†, 155, 156, 157, 158, 159A, 159B, 162◈, 164⌘, 166A☸, 166B☸, 184◈, 185◈, 190◈, 192A◈, 193±, 195⏃, 196A◈, 196B☸,197A◈, 197B☸, 197C☸, 230, 231, 232, 233, 240, 241, 242, 243, 251, 252, 291◈, 292◈

ASIAN AMERICAN STUDIES
101

ASTRONOMY
109, 110, 110H, 140

BIOLOGY
*109, *109H, 109L, 111%, 115⏃, 129, **139‡, 149◈, 177, 190◈, 190L◈, 200, ***211, 212, 214, **229, 239, 249, 259, ***290ø
** No credit for 109 or 109H if taken after 211*
*** 139 and 229 combined: maximum credit, one course*
**** No credit for 211 if taken after 290*

BLACK STUDIES
101

BUSINESS
100, *101, *105, 130☸,**150
** Maximum credit, one course*
*** No credit for Business 150 if taken after Computer Science 105*

CHEMISTRY
*109, 115★, *119, *209, 210⏃, 219, 219H, 229, 249, 259
**109, 119, and 209 combined, maximum credit, one course*
No credit for 109, 119, or 209 if taken after 219 or 219H

CHICANO STUDIES
101

CHILD DEVELOPMENT
*107, 110, 116A◈, 120A◈, 221◈
** 107 and PSYC 157 combined: maximum credit, one course*

CHINESE
* 101, 102
** Corresponds to two years of high school study*

COMMUNICATION STUDIES
101, 101H, 102, 103, 103H, 140, 145, 152, 158#, 206, 206H

COMMUNICATIONS AND MEDIA STUDIES
103¢, 105 (formerly TELV), 105H (formerly TELV), 110¢, 111★

COMPUTER SCIENCE
100, 105, 112, 113⌘, 114⌘, 120†, 121, 129, 131, 140◈, 170⌘, 205, 213

COUNSELING – courses completed prior to Fall 2016
107#, 116⏃, 128, +144
+Philosophy 111 and Counseling 144 combined: maximum credit, one course.

COUNSELING – courses completed Fall 2016 or later
*100, *103, *104, *106, *107, *110, *116, *124, 128, +144
**100, 103, 104, 106, 107, 110, 116, and 124 combined maximum credit 3 units.*
+ Philosophy 111 and Counseling 144 combined: maximum credit, one course.

CRIMINAL JUSTICE
101, 101H☸, 103, 103H☸, 109, 109H☸

DANCE
100, 100H, 102, 105, 106A, 106B, 107, 108A, 108B, ~109A, ~109B%, 109C%, 110, 111, 112, 113A, 113B, 117, 118, 119A, 119B, 120A☉, 120B☉,~122, 123, 124, 130, 140, 201A, 201B, 202A, 202B, 204A, 204B, 204C☸, 204D☸, 205, 205B☸, 205C☸, 205D☸, 206A, 206B, 209, 210, 213, 214, 219A, 219B, 220, 221, 232, 240A, 240B, 240C☸, 240D☸, 250A%, 250B%, 251%, 260%, 261%, 262%, 263%, ~270, 290☸, 291☸, 296, 297, ~298
~ any or all of these PE Activity courses combined, maximum credit 4 units

EARTH SCIENCE
* 110, *110H, **115‡, 150, 150H
** 110 combined with 110H, Geography 101 or Geology 101, maximum credit, one course*
*** No credit for 115 if taken after 110, Geography 101 or Geology 101*

ECONOMICS
120, 121

EDUCATION
100 (formerly 101^), 120A⌘, 210

ENGINEERING
100A (formerly 148), 118☸, 119☸, 122, 124, 125, 165¢, 183, 195◈, 205⌘, 228, 235, 240†, 250, 250L, 281

ENGLISH
101, 101H, 102, 102H, 103, 103H, 104, 104H, 213 (formerly 211), 220, 231, 232, 233A, 233B, 233C, 241, 242, 243, 245, 246, 270☸, 271, 272, 278

ENGLISH FOR MULTILINGUAL STUDENTS
*110, *112
**Any or all of these courses combined, maximum credit, 8 units*

ENVIRONMENTAL STUDIES
140, 200, 259

ETHNIC STUDIES
101, 101H, 102, 102H

FASHION DESIGN MERCHANDISING
104, 136☉

FRENCH
*101, 102, 201, 201H, 202, 202H, 211^, 214
**Corresponds to two years of high school study*

GEOGRAPHY
100, 100H, *101, 101L, 102, 130◈, 140◈, 155◈
**101 combined with Earth Science 110, 110H, Geology 101, maximum credit, one course*

GEOLOGY
*101, 101L, 140, 150, 150H, 201
** 101 combined with Earth Science 110, 110H, Geography 101, maximum credit, one course*

HISTORY
101, 101H, 102, 102H, 105, 118, 120, 120H, 121, 121H, 123, 124, 124H, 125, 127, 133, 146, 150, 151, 153, 163⏃, 181

INTERDISCIPLINARY STUDIES
117H, 121¢, 155, 200

UC credit not granted for the course taken prior these dates:

+	#	^	‡	❖	⏃	†	¢	★	ø	%	✦	☉	◈	±	✻	⌘	◆
Fall 2001	Fall 2002	Fall 2003	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020

Note: Duplicate credit will not be awarded for both the honors and regular versions of a course. Credit will only be awarded to the first course completed with a grade of "C" or better.

ITALIAN
*120, 121✦
** Corresponds to two years of high school study*
JAPANESE
*101, 102
** Corresponds to two years of high school study*
KINESIOLOGY
KNAC ~107A, ~107B±, ~107C☸, ~123, ~140A, ~150A, ~155A, ~160A, ~169A, ~169B±, ~170A, ~200A, ~200B, ~200C, ~211A, ~211B, ~220A, ~220B, ~220C, ~226A, 230A⌘, ~260A, ~260B, ~260C☸, ~265A, ~265B, ~265C☸, ~270A✦, ~290A, ~290B;
KNAD ~201A, ~202A, ~202B, ~205A, ~208A, ~208B, ~211A, ~211B;
KNAF ~140A, 143A, 144A, ~146A, ~146B, ~150A, ~156A, ~156B, ~157A➹;
KNAQ ~201A, ~201B;
KNFI ~112A✦, ~112B✦, ~112C✦, ~114A☸, ~114B☸, ~115A, ~115B, ~115C, ~147A, ~147B;
KNHE **101, **102, **103☸,**104, ***105, ***106±, ***107;
KNIA ~125, ~128, ~133, ~171, ~201, ~202, ~204, ~206, ~209, ~210, ~211, ~212, ~213, ~216, ~217, ~218, ~219, ~220, ~221, ~223, ~227, ~230±, ~231, ~232, ~235, ~240, ~261, ~262, ~270, ~271, ~281, ~291, 293±;
KNPR 101ø, +155, +165, +175,195◆, +200, 217±;
KNSM 101
~any or all of these PE Activity courses combined, maximum credit 4 units
+any or all of these courses combined, maximum credit 8 units
***101, 102, and 104 combined, maximum credit, one course*
****105, 106 and 107 combined, maximum credit, one course*
LAW
100⌘, 105±
LIBRARY TECHNOLOGY
*102
**102 and Library and Information Studies 100 combined, maximum credit, one course*
LIBRARY AND INFORMATION STUDIES
*100
**100 and Library Technology 102 combined, maximum credit, one course*
MATHEMATICS
105, *140, *141⌘ **(Maximum UC credit 4 units)**, 145, **150, *170, **180, **180H, 185, 204, 219, 219H, 221⌘, 280, 287†
**140, 141 and 170 combined, maximum credit, 5 semester /7.5 quarter units*
***150, 180, and 180H combined, maximum credit, one course*
MUSIC
101, 101H, 102, 102H, 103, 104➹, 105±, 109❖, 110, 111, 112, *113A, *113B, 114A, 114B, 115A, 115B, 115C, 115D, 121, 122, 123, 124, 135, 136, 137, 140, 141, 145★, 148☸, 152±, 161, 162, 163, 164A, 164B, 168, 169, 170, 171, 173#, 175, 176, 178, 180A, 180B%, 181, 185, 186, 187, 188, 189, 213, 214, 215A, 216, 217, 241, 245⌘, 268%, 269±, 271¢
** No credit for 113AB if taken after 114AB*
NUTRITION AND FOOD
115, 115H, 118❖
PHILOSOPHY
106, 106H, 108, 110, 110H, *111, 112, 118,*144
** 111 and Counseling 144 combined, maximum credit, one course*
PHOTOGRAPHY
150, 180
PHYSICAL SCIENCE
115, *117, *118
** No credit for 117, 118 if taken after a college course in Chemistry or Physics*
PHYSICS
* 109, **210, **211, **217, **227, **237, **279, **289
** No credit for 109 if taken after 217 or 279*
*** 210, 211, or 217, 227, 237, or 279, 289 combined, maximum credit, one series, deduct credit for duplication of topics*
POLITICAL SCIENCE
101, 101H, 200, 200H, 201, 220, 235★
PSYCHOLOGY
100, 100H, 140, *157, 170, 180☸, 200, 210%, 219, 230, 240, 250
** 157 combined with CDEV 107: maximum credit, one course*
READING
150☸
SOCIOLOGY
100, 100H, 112, 140, 140H, 240
SPANISH
*101, *101H, 102, 102H, 195A, 195B, 201, 201H, 202, 202H, 212, 213
** Corresponds to two years of high school study*
SPEECH LANGUAGE PATHOLOGY ASSISTANT
119+, 160
TELEVISION/VIDEO COMMUNICATION
103, 104, 110☸, 140±, 142, 150, 152±,193±, 255±
THEATER ARTS
100, 105❖, 110, 111, 113, 114☉,118, 120⌘, 123⌘, 130⌘, 131, 132, 133, 135, 136±, 137⌘, 138⌘, 140A±, 140B±, 140C±, 140D±, 150, 150A±, 150B±, 151★, 152¢, 153★, 154★,155❖, 156†, 161☸, 162☸, 163☸, 171☸, 172☸, 173☸, 178☸, 179☸, 180☸, 181☸, 186☸, 190☸, 250, 255☉, 256❖, 257☸, 258☸
VARIABLE TOPICS
These courses are also called "Independent Studies", "Special Studies", "Special Topics", "Field Work", etc. and are typically numbered 198 or 199 at SAC. Credit for variable topics courses is given only after a review of the course outline by the enrolling UC campus. This usually occurs after transfer and may include recommendations from faculty. **Students are advised to save all materials from their SAC Variable Topics course(s), which are typically numbered 198.** Information about internships may also be presented for review, but credit for internships rarely transfer to UC. No credit for Special Topics courses in Journalism, Photography, Health, Business Administration, Architecture, Criminal Justice (Criminology), or Library Departments due to the credit restrictions in these areas.
VIETNAMESE
*101, 102
**Corresponds to two years of high school study*
WOMEN'S STUDIES
101, 102

This list is informational only and is based on the official Santa Ana College 2019-2020 UC Transfer Course Agreement which can be found at **assist.org**. UC transferable course lists for additional years are also located on ASSIST. For more information consult a Santa Ana College counselor.

UC credit not granted for the course taken prior these dates:

+	#	^	‡	❖	➹	†	¢	★	ø	%	✦	☉	❖	±	*	⌘	◆
Fall 2001	Fall 2002	Fall 2003	Fall 2006	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020

Note: Duplicate credit will not be awarded for both the honors and regular versions of a course. Credit will only be awarded to the first course completed with a grade of "C" or better.

BACCALAUREATE DEGREE

Graduation Requirements for a Baccalaureate Degree

Graduation requirements for a Baccalaureate Degree are prescribed by the California Community Colleges Board of Governors, Accrediting Commission for Community and Junior Colleges, Title 5, and the Rancho Santiago Community College District Board of Trustees. Specifications are based upon recommendations by the Academic Senate of California Community Colleges. A Baccalaureate Degree may be earned upon satisfactory completion of all of the following:

A. Total Unit Degree Requirement

Complete a combination of lower-division and upper-division coursework totaling a minimum of 120 semester units to include the following:

a. A minimum of twenty-four (24) units of lower-division-major courses
   Lower-division courses acceptable toward a baccalaureate degree are designated as CSU or UC transferable or determined to be at the baccalaureate level.
   Lower-division courses from other U.S. regionally accredited institutions will be reviewed by a Career Education counselor and graduation specialist to determine baccalaureate credit based on course description, comparable content, appropriate prerequisites, or C-ID number.
   All lower-division requirements must be met before the baccalaureate degree is granted.
   International courses will be evaluated for baccalaureate major requirements only when course descriptions are submitted in English, along with a transcript evaluated by an approved foreign transcript service.

b. A minimum of forty (40) units of upper-division-major courses Rancho Santiago Community College District courses designated as upper-division are applicable only to a baccalaureate degree and may not be used to satisfy associate degree requirements.
   Upper-division courses from other U.S. regionally accredited institutions will NOT be accepted for upper-division major, general education, or elective baccalaureate degree credit.

B. General Education Requirements

All students are required to complete General Education. Students may choose to complete:

a. California State University (CSU) GE Breadth (Plan B)
   or
b. Intersegmental General Education Transfer Curriculum (IGETC) (Plan C) (either CSU or UC Version)
   and
c. A minimum of nine (9) units of upper-division general education coursework

Previously completed lower-division general education courses will be evaluated according to the CSU-GE or IGETC certification guidelines. Students enrolled in the baccalaureate program who have not completed the CSU-GE or IGETC pattern must complete any remaining CSU-GE or IGETC Areas.

C. Residence Requirement

At least 24 units of upper division coursework must be completed at Santa Ana College

D. MajorRequirement

All students must take required major courses as specified by the major department and earn a grade of "C" or better in each course. Students should review specific major admissions requirements and prerequisites in the program descriptions area of the catalog for more detail.

Bachelor of Science Occupational Studies Degree

Program code: sac.os.bs

The baccalaureate degree in Occupational Studies will create a more highly skilled occupational therapy assistant (OTA) who is better able to understand and utilize research-based evidence for best practice and take on a leadership role. As an additional benefit it will prepare an OTA for entry into an Occupational Therapy (OT) Master's degree program. The upper division course work will provide more in-depth training in specific areas of OT practice, including neurologic rehabilitation, musculoskeletal rehabilitation, pediatrics, geriatrics, and key practice areas identified by the American Occupational Therapy Association. These courses, together with a capstone project will also provide increased opportunities for critical analysis, research methods, and clinical reasoning. To complete the Bachelor of Science in Occupational Studies, students must complete: (1) complete all upper division course requirements with a grade of "C" or better; (2) complete 37 units of IGETC lower division general education coursework or 39 units of CSU GE Breadth lower division general education coursework.

Learning Outcome(s):

- Demonstrate advanced mastery of OTA clinical skills, including clinical reasoning, that follow the guidelines established in the Frameworks for Occupational Therapy Practice.
- Relate theory and research to clinical practice areas.
- Provide OTA services that meets the community needs of diverse populations demonstrating sensitivity and empathy.
- Prepared for participation in advocacy for clients in clinical and community settings.

Prerequisite:

Associate Degree from an ACOTE and regionally accredited OTA program and OTA Certification/License

Required lower division courses specific to the BS Degree

Core Courses		Units
PSYC 210	Statistics for the Behavioral Sciences	4
SOC 100	Introduction to Sociology	3
PHIL 108	Ethics	3
PHYS 109	Survey of General Physics	4
Required upper division major courses		
OS 301	Therapeutic Approaches to the Older Adult	3
OS 304	Movement Theory & Analysis	3
OS 305	Advanced Pediatric Practice for the Occupational Therapy Assistant (OTA)	3
OS 310	Community-Based Occupational Therapy Practice	3
OS 312	Advanced Practice Areas in Occupational Therapy (OT)	3
OS 325	Applying Research to Occupational Therapy Intervention	3
OS 402	Neurological Principles in Human Performance	4
OS 403	Leadership for the Occupational Therapy Assistant (OTA)	2
OS 410	Healthcare Systems	3
OS 412	Capstone Seminar	3
Required upper division general education courses:		
MATH 319	Quantitative Research Methods for Healthcare Professionals	4
CMST 307	Health Communication	3
SOC 401	The Sociology of Health, Illness, and Healing	3
	Total Units:	54

COMMUNICATION STUDIES

Communication Studies 307

Health Communication

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.Communication Studies 101 or Communication Studies 101H or Communication Studies 102 or Communication Studies 103 or Communication Studies 103H or Communication Studies 145; with a minimum grade of C.

Course is designed to advance knowledge of health communication theory, research and practice while providing solid foundation for understanding importance, value and impact of health communication upon patients, families, caregivers and healthcare team-members. CSU

MATHEMATICS

Mathematics 319

Quantitative Research Methods for Healthcare Professionals

Unit(s): 4.0 Class Hours: 72 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program Mathematics 219 or Mathematics 219H or Psychology 210 with a minimum grade of C.

This course will develop skills and tools for understanding and performing quantitative research in healthcare sciences. The focus of the course will be on statistical research methods prevalent in healthcare sciences: including principles of experimental design, appropriate sampling, and running quantitative tests to determine the validity of claims. CSU

SOCIOLOGY

Sociology 401

The Sociology of Health, Illness, and Healing

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program Sociology 100 or Sociology 100H with a minimum grade of C.

This course analyzes the social contexts of health, illness, and organized medical care. It examines empirical research and theory of the changing concepts of health, illness and medical practice in their socio-historical contexts. Topics will include: social epidemiology, the biomedical and social construction of health/illness, the experience of illness, the historical transformation of the health professions and the health work force, disparities in health care, medical technology, global comparisons of health care and health care reform. CSU

OCCUPATIONAL STUDIES

Occupational Studies 301

Therapeutic Approaches to the Older Adult

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will build upon the developmental concepts of aging to examine quality of life in older adulthood. The focus of this course will be on evaluating older adults from an occupational perspective and analyzing the skills needed to maintain independence and to successfully participate in meaningful activities throughout the older years. CSU

Occupational Studies 304

Movement Theory & Analysis

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

Movement is a significant aspect of occupational performance. This course will focus on current theories of motor control and motor learning with an emphasis of how these theories can be applied to provide evidence-based practice to those with motor dysfunction. CSU

Occupational Studies 305

Advanced Pediatric Practice for the Occupational Therapy Assistant (OTA)

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will build upon developmental concepts related to pediatric Occupational Therapy (OT) practice. The focus of this course will be to look at specific settings related to pediatric occupational therapy practice. It will focus on evaluating the pediatric client related to acute hospital care and school based intervention. CSU

Occupational Studies 310

Community-Based Occupational Therapy Practice

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will focus on the practice of Occupational Therapy (OT) in community-based settings. This will include an in- depth analysis of both the history and growth of OT practice in the community. Students will analyze the role of OT in community settings with a variety of populations. CSU

Occupational Studies 312

Advanced Practice Areas in Occupational Therapy (OT)

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will provide a study of the advanced practice areas in occupational therapy. Advance practice areas in occupational therapy include: physical agent modalities (PAMs), hand therapy and feeding and swallowing. This class will focus on the theory and application of PAMs for the use in occupational therapy; the fundamentals of hand therapy including treatment guidelines in occupational therapy; and feeding and swallowing issues with the occupational therapy client. CSU

Occupational Studies 325

Applying Research to Occupational Therapy Intervention

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will provide an in-depth study of utilizing evidence to develop effective treatment plans in Occupational Therapy. The focus will be on critically evaluating available research to develop best practice in intervention. CSU

Occupational Studies 402

Neurological Principles in Human Performance

Unit(s): 4.0 Class Hours: 72 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will provide an in-depth study of the neurologic principles used in rehabilitation practice. This will focus on understanding the structures and function of the central and peripheral nervous systems and to the sequelae of injury

to these systems. There will be an emphasis on cognitive, visual, and perceptual problems in adults with acquired brain injury. CSU

Occupational Studies 403

Leadership for the Occupational Therapy Assistant (OTA)

Unit(s): 2.0 Class Hours: 36 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will explore leadership roles that are available to the OTA and the skills that are needed to assume them. The focus will be on leadership, advocacy, marketing, quality improvement, supervision, and scholarship. Students will also explore volunteerism and active participation in professional organizations. CSU

Occupational Studies 410

Healthcare Systems

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will cover the various healthcare systems that influence the practice of occupational therapy. Topics will include economics, types of insurance, healthcare policies, ongoing healthcare reform, and the role of technology. As a part of this course students will complete an independent, in-depth, study of one of the key practice areas in OT as identified by the American Occupational Therapy Association (AOTA). CSU

Occupational Studies 412

Capstone Seminar

Unit(s): 3.0 Class Hours: 54 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This Capstone Seminar is designed to demonstrate the student's accumulated training through the development of a project that reflects theory, advanced knowledge of practice, and innovation. The theme of each project will be facilitating engagement in occupation with the use of a therapeutic product. Each student will complete a project that is individually mentored and demonstrates an increased level of self-direction. Grade: Pass/No Pass Only. CSU

STUDENT RESOURCES

Academic Computing Center

The Santa Ana College Academic Computing Center (ACC) is located at Santa Ana College in room A-106.

The ACC serves students currently registered at the college who are doing college related projects. These projects can be completed by accessing an ample variety of application software. The software packages run on IBM compatible computers or Macintosh computers.

Assessment Center

The Assessment Center is located on the second floor of the Santa Ana College library, room 223. We provide the following services:

- English, Reading, English for Multilingual Students, and Math Placement Recommendations using multiple measures
- Registration Orientations
- Career Exploration to local high schools
- Proctor make-up testing for all SAC classes
- Proctor online and hybrid course testing
- Test accommodation services for students with disabilities
- Facilitate career assessments (i.e. Super Strong & MBTI)
- Placement for Chemistry

For more information about our services, you can call 714-564-6148 or go to our webpage **sac.edu/assessmentcenter**

Bookstore

The Bookstore at Santa Ana College provides a complete selection of books, supplies, and specialty items.

CalWORKs

The California Work Opportunity and Responsibility to Kids (CalWORKs) program is funded by the state to work with students who are approved by County Social Services to complete an educational program that helps them transition from public assistance to employment and economic self-sufficiency. SAC's CalWORKs program offers the following types of assistance to eligible students: help with application and matriculation steps; academic, career and personal counseling; individualized student educational plans; priority registration; verification of monthly activity reports to Social Services; educational supplies; work-study placement (when available); workshops and networking activities; and referrals to other campus resources and opportunities. For more info, visit: **sac.edu/CalWORKs**, drop by VL-110 (The Village), or call 714-564-6232.

Career Center

The Career Center provides a variety of services and workshops to assist students in navigating The Career & Academic Pathways including Career Development, Employment Services, Service Learning Internships, and Counseling appointments for students in Career Education disciplines and Undecided Majors. Classes and individual students utilize the Center's resources.

Career Education and Workforce Development High School Articulation - CTE Transitions

High school articulation is a process by which high school CTE courses are deemed equivalent to college CTE courses through a formal agreement. College credit can be awarded to students through Credit by Exam if they successfully complete an articulated course with a letter grade of A or B both semesters and are enrolled at SAC or SCC during the same semester they are petitioning for credit. High school articulation prevents students from needing to repeat coursework in college and facilitates a smooth transition between high school/college/work.

Students wanting to claim credit for articulated course(s) need to visit our office in R-116 or website at: **sac.edu/hsarticulation** for a full list of active articulation agreements and forms needed to process their course credit. Our office can also be reached by phone at (714) 564-6811.

College Advancement/Foundation

The Santa Ana College Foundation is a 501(c) 3 non-profit organization serves a diverse college community and was created to expand and develop resources for Santa Ana College students and programs. The Foundation Board of Directors represents a broad-based group of community volunteers, corporate partners, and alumni.

The Santa Ana College Foundation leads and supports fundraising activities, campaigns, and initiatives that ensure educational opportunities are possible for all students. It assists in direct philanthropy on multiple fronts. This includes large-scale campaigns, scholarships, local and national grants, program support, which includes our Associate Groups. To this end, the college foundation solicits the support of the community and donors by receiving tax-deductible donations of cash gifts, bequests, trusts, endowments, corporate grants, life insurance benefits, and personal or real property. If you are interested in more information about the Foundation and how to participate in supporting our many programs, please contact the Foundation Office directly by calling 714-564-6091 or visit our website at **sac.edu/foundation**.

Community Services Program

Community Services Program offers a full spectrum of low cost, fee-based educational opportunities that include professional growth, personal enrichment, and recreational activities.

A variety of classes and seminars are available including animal care, arts and crafts, business and careers, computers, home and garden, language, dance, health and fitness, money matters, personal enrichment, and real estate. Also available are "College For Kids" programs, special interest classes, online classes, and travel tours. For additional information call the Community Services Program at 714-564-6594 or visit us at **sac.edu/cms**.

Counseling Services

The Counseling Center offers academic advising and personal counseling at SAC, offering individual and group academic advisement, education plan development, career planning, orientation services, personal counseling and several Counseling courses that support students' personal and academic development in the achievement of their educational goals. Counseling Services are provided at these educational sites: Santa Ana College, Centennial Education Center, and Remington Education Center. Counseling is also provided through a variety of specialized academic support programs, housed both within the Counseling Division, and outside of it. Please refer to the Student Services page of our website for a complete listing of SAC student support programs at **sac.edu/StudentServices**.

Centers and Programs Within the Counseling Division

Students interested in transfer to a university, specific career paths such as education, science and engineering, or certificates in career education can access counseling through specific programs in these areas. For a complete listing of centers and programs, visit our Counseling page at **sac.edu/Counseling**.

Orientations and Workshops

Counseling can be accessed through a variety of service modalities. New student and career specific orientations are available to help students learn college procedures and requirements and gain information on career and transfer pathways. In an effort to support student success, workshops are offered in educational planning, how to transfer to a university, and strategies for students who are experiencing academic challenges. Counseling courses are an additional way to access services.

Counseling Center

Counselors are available to meet with students for drop-in times to answer brief questions and individual appointments for in-depth career, academic or personal counseling. Counseling questions can also be asked via our on-line counseling service (**sac.edu/counseling-contact**). The Counseling Center can be reached at 714-564-6103.

Child Development Centers

Rancho Santiago Community College District maintains six child development centers to serve students' needs for childcare and/or train students seeking a career in Human Development. Students' children between the ages of 6 months and five years are eligible to attend the educational environment provided. Fees are based on a sliding scale according to the parents' income. Students eligible for the CalWORKs program can receive child care services both on and off campus. Contact individual centers for hours of operation and information.

Centennial Center

(2½-5 years old)

2900 W. Edinger, Santa Ana, 714-564-5090

Santa Ana College Infant/Toddler/Preschool Center

(6 months-5 years old)

1720 W. 17th St., Santa Ana, 714-564-6894

Santa Ana College Child Development -Center East Campus

(2.9 to 5 years old)

1510 N. Parton St., Santa Ana, 714-564-6952

Disability Services

The Disabled Students Program and Services (DSPS) office provides accommodations to support students in pursuit of a community college education. Students with disabilities should have the following levels of independence:

- The ability to navigate campus facilities independently or with the assistance of a personal care attendant (to be provided by the student);
- The ability to take care of his/her personal needs independently or with assistance of a personal attendant (to be provided by the student); and
- Stable level of health/wellness in order to benefit from, and fully participate in, a full term's work.

New students must complete a DSPS application and meet with a DSPS Faculty to discuss their accommodation needs. Verification of disability from a qualified professional must be provided to the DSPS office to qualify for any of the following supportive services:

- Use of special equipment (e.g., assistive technology)
- Alternate media production
- On-campus mobility assistance
- Priority registration
- Sign Language Interpreting
- Real-time captioning/CART services
- Testing accommodations
- Note taking services
- Case management
- Preferential seating
- Liaison/Referral with community agencies

Staff are available to help students navigate architectural barriers on campus, as needed. Please contact our office or Campus Safety for on-campus transportation assistance. For additional information, call us at 714-564-6295, visit our website at **sac.edu/StudentServices/DSPS**, or drop by SAC VL-204.

English Language Academy

The English Language Academy (ELA), as part of the International Student Program office, offers a number of quality programs targeted to meet various language-training needs. Every course is designed to help students improve their English proficiency quickly so they can participate more effectively in various academic, professional, and social environments. For more information, call 714-564-6047.

Extended Opportunity Programs and Services (E.O.P.S.)

The Extended Opportunity Programs and Services program is funded by the state to work with eligible students whose educational and socioeconomic backgrounds might limit their access to higher education or hinder their ability to be academically successful in their college-level studies. Eligible students are provided "over and above" services to help ensure their timely academic progress and completion, including assistance with application and matriculation steps; academic, career and personal counseling; individualized student educational plans; priority registration, book services; help with financial aid, scholarship and transfer applications; program-dedicated tutors and resource center; referrals to other campus resources and opportunities; and as budget permits, school supplies and subsidized program fees.

An ancillary program called CARE offers additional support and benefits to EOPS-eligible students who are single parents with at least one child under age 18.

For more info, visit **sac.edu/EOPS**, drop by VL-110 (The Village), or call 714-564-6232.

Health and Wellness Center

The Health and Wellness Center supports student success by recognizing that total wellness is essential to academic success. The Center strives to provide optimum physical and mental health services to the college community in a confidential environment with sensitivity to individual needs. Quality clinical services, innovative health, wellness promotion activities, and outside referrals to low-cost providers in the area are provided in a caring, confidential, cost-effective, and convenient manner.

Eligibility

Full-time and part-time students currently enrolled in SAC credit classes are eligible for services.

Cost

Students pay a health fee every term to have access to the Health and Wellness Center; therefore, most services are provided at no cost to the student. A nominal fee may be charged for certain laboratory tests, prescriptive medications, and some medical procedures.

Services

Physical health and wellness services are provided by registered nurses and a physician and Mental Health and Wellness Services are provided by licensed psychologists and therapists in the center by appointment or on a walk-in basis during service hours for the following:

- Blood pressure checks
- Crisis services are available on a walk in basis
- Diagnosis and treatment of acute short-term illnesses
- Family planning: information, pap tests, birth control, condoms, and pregnancy tests
- First aid
- Free health literature
- Laboratory testing
- Personal counseling
- Referrals to physicians and other health agencies
- Screening and treatment for sexually transmitted infections
- T.B. risk assessment or skin test
- Vaccinations

Treatment of a Minor

Any student under the age of 18 is required to have a parental consent form signed prior to receiving treatment, except in emergencies or cases exempted by state law. The student's parent must sign permission for treatment at time of service.

Accident Insurance

Accident insurance is included in the student health fee and provides on-campus accident coverage while attending college or college-sponsored activities. It is recommended that each student carry voluntary insurance coverage for off-campus emergencies and illnesses. For additional information visit **sac.edu/StudentServices/HealthCenter/**, SAC VL-211 or call 714-564-6216.

High School and Community Outreach

The High School and Community Outreach department serves as an integral part of the campus and community. Outreach staff provide detailed information regarding the quality programs that are offered to prospective students. Parents, students, and community agencies are connected to campus life via the efforts of Outreach personnel. Special arrangements can be made for campus tours, presentations, and special meetings to discuss interests about college life and academic departments. For more information, call 714-564-6141 at Santa Ana College.

Honors and Transfers

Phi Theta Kappa. Phi Theta Kappa is an international honors society that recognizes academic excellence and achievement of students enrolled in two-year colleges. The society offers a myriad of opportunities for scholarship, intellectual enrichment, personal development, and academic recognition.

The Alpha Beta Chapter of Phi Theta Kappa was organized at Santa Ana College in 1929. Membership in Phi Theta Kappa is extended each semester by the local chapter to students who have completed a minimum of 12 degree units with a minimum grade point average of 3.5.

Members receive special recognition when they graduate.

Alpha Gamma Sigma. Alpha Gamma Sigma is the statewide California Community College Honor Society. Santa Ana College has one of the oldest chapters in the state, organized in 1922. This is the Omicron chapter. To be eligible for initial membership a student must attain a 3.0 GPA in 12 or more units of work in the semester prior to membership. A student who has earned 25 service points and has completed 60 or more units with an overall GPA of 3.5 or better and active membership of one semester or a GPA of 3.25 and more than one semester of membership who has been a continuing or initial member for 2 semesters and has a GPA of 3.25 or better may become a permanent member of Alpha Gamma Sigma upon application and verification of eligibility by the chapter advisor.

Permanent members are announced each year in May at the Scholarship and Awards Program and receive recognition at commencement.

Delta Psi Omega. Delta Psi Omega is the National Theatre Honor Society open to students active in the SAC Theatre Programs with a minimum GPA of 3.0 and 12 units of theatre classwork. Chartered in 2019, they too receive recognition at commencement.

Lambda Epsilon Chi (LEX). Lambda Epsilon Chi (LEX) is a national academic honor society for paralegal students. Sponsored by the American Association for Paralegal Education (AAPE), the society offers students national scholarship opportunities, participation in regional, state and local conferences, and networking opportunities with other legal professionals. Candidates for membership in Lambda Epsilon Chi must be in good academic standing at SAC and have completed at least two-thirds of their paralegal coursework. Candidates also must have a cumulative GPA of 3.5 or higher in their paralegal coursework.

Psi Beta. Psi Beta is the National Honor Society for Psychology at Community and Junior Colleges. Santa Ana College has held a Psi Beta chapter since 2001. To be eligible for initial membership a student must 1) attain a 3.25 GPA in 12 or more units of work in the semester prior to membership and 2) have completed at least one psychology course with a B or better. Members are eligible for national scholarships and academic competitions. Members are inducted every semester and receive special recognition at the commencement ceremony.

Sigma Chi Eta. Sigma Chi Eta is the National Honor Society for Communication Studies, and Santa Ana College hosts the Alpha Tau chapter. Students must have an overall GPA of 3.0 with a 3.25 GPA in at least 9 units of Communication Studies courses. Students receive special recognition at the commencement ceremony.

Sigma Kappa Delta. Sigma Kappa Delta is the National Honor Society for English at Community and Junior Colleges. Santa Ana College chartered the Iota Zeta chapter in 2017. To be eligible, a student must 1) attain a 3.0 or higher cumulative GPA in 12 or more units of college coursework, 2) have completed at least one non-developmental English course with a grade of B or better, and 3) have no grades below a B in English courses. Members are eligible for national scholarships and academic competitions. Members are inducted every semester and receive special recognition at the commencement ceremony.

Instructional Locations

The district's major instructional locations are at Santa Ana College, Santiago Canyon College, Orange Center, and the Centennial Education Center. In addition to these major instructional sites, the district offers classes at over 100 convenient off-campus locations in the community.

Intercollegiate Athletics

Santa Ana College offers a winning tradition with an established national reputation, outstanding teaching and coaching, and an excellent system of assistance in transferring students to four-year colleges and universities with athletic scholarships. The college offers a full range of intercollegiate athletic competition in the sports of football, basketball, baseball, cross country, track, swimming, water polo, volleyball, sand volleyball, soccer, softball, and wrestling.

All prospective student-athletes with questions about eligibility for intercollegiate athletics are encouraged to contact the Kinesiology, Health and Athletics Division at 714-564-6900.

Learning Center

The Learning Center is located in Dunlap Hall (rooms D-310 and D-307) at Santa Ana College. The Center offers a wide selection of resources providing students with skills and strategies to promote their academic success. Services include supplemental learning assistance (DLAs), tutoring, computer-aided instruction, and workshops. Academic support is free for all Santa Ana and Centennial Education Center students. Tutors are available for a variety of subjects including English, writing, English for the Multilingual Student (EMLS), reading, foreign languages, communication studies, accounting, math, and courses in the sciences, social sciences and Career and Technical Education. The Learning Center is staffed with instructors, trained tutors, and learning assistants. For further information, please call 714-564-6542.

Library Services

The Nealley Library of Santa Ana College, one of two libraries in the District, is centrally located on the first floor of the L building. The library supplies the resources, services and facilities that support student learning and the mission of the College.

The Library's collection is composed of books, periodical subscriptions, close-captioned videos and DVDs, CDs, microforms and a variety of periodical databases providing students and staff with 24/7 remote access to over 20,000 full-text periodicals and 24,000 e-books. To borrow library materials students and staff must show a picture ID.

The Library's Reserve collection of more than 2,700 items provides students with library-use access to many textbooks and other course-related material.

Students and staff may use either of the two District libraries and may request inter-campus delivery of circulating books.

The Internet is available to all patrons at all public access workstations. Currently enrolled students can conduct library research using library wireless laptops or their own laptops using Wi-Fi access.

Free library instruction is available for students. Check the library website: **sac.edu/library**, or call 714-564-6700 for general library information, or 714-564-6708 for the current library instruction schedule.

Math Center

The Math Center is a resource center that provides individual and group assistance in mathematics. The Math Center also facilitates Directed Learning Activities. Faculty instructors, instructional assistants, and student tutors are available to assist students with challenging topics, answer questions, encourage understanding, and provide support for all math students. Students also have access to textbooks, graphing calculators, instructional videos, and computer programs. It is located in the Library building, room L-204. For further information, please call 714-564-6678 or go to **sac.edu/MathCenter**.

MESA

MESA (Math, Engineering, Science Achievement) is an academic program designed to support educationally and economically disadvantaged students preparing to transfer into STEM (science, technology, engineering, and math) majors at the university. Services include tutoring, advising, dedicated study center and support, academic success workshops, industry and university exposure, assistance with choosing and applying to universities, scholarships, internships, and research experiences. Travel to professional and leadership conferences and other opportunities as budget permits.

Public Affairs

Information and publicity regarding Santa Ana College programs and activities are disseminated to the news media and community through the SAC Office of Public Affairs/Governmental Relations, located on the second floor of the "S" Building.

Puente

The Puente Program provides English and Counseling instruction (English 101 & English 102), academic counseling, a variety of out of class activities, and mentoring to assist and prepare students for transfer.

SAC Promise

Santa Ana College (SAC) Promise is an initiative of the Santa Ana Partnership, which was formed in 2011 by the UCI, CSUF, SAC, SAUSD and the City of Santa Ana to elevate academic achievement and college-going throughout the greater Santa Ana area. The goal of the program is to support students who would like to attain a certificate, AA degree and/or transfer to a four-year university.

Scholarships

Scholarships are a critical component to student success. Many alum, community patrons and organizations establish scholarship awards as a means of expressing confidence in Santa Ana College and its students. Santa Ana College scholarships are awarded to deserving students who represent and demonstrate great academic merit, achievement, leadership skills, and financial need. Open to incoming freshmen, continuing, and transferring students enrolled in a minimum of 6 units or more each semester (Fall 2020 & Spring 2021) at SAC with a minimum GPA of 2.0. In the 2020-2021 academic year, the SAC Scholarship Program will award $587,196 in scholarship awards, due to the support of our generous donors. Scholarship opportunities are also available to students enrolled in the SAC Fire Academy, Fire Prevention Officer Program, along with students who have 9 units or less left towards certificate completion.

The Scholarship Program offers a series of workshops to provide students with an overview of the online application process, guidelines on writing a personal statement, and requesting letters of recommendation. Applications and a schedule of workshops available here: **sac.edu/scholarships**

For more information, contact the scholarship office at (714) 564-6478 or **scholarship@sac.edu**, or visit the office located in Building "S", Room 201.

School of Continuing Education

The School of Continuing Education helps students reach their professional and academic goals by offering free noncredit classes and certificates through the following program offerings:

- English as a Second Language
- High School Diploma
- GED/HiSET Equivalency Certificate
- College Readiness
- Career Education
- Older Adults Program

Students enrolled in the School of Continuing Education have access to personal, career and academic counseling. Courses are offered six days a week with morning, afternoon, evening and online classes available. More information about registration and additional services provided can be found in the Continuing Education section of this catalog. (See page 345)

Student Activities

Student Activities are planned with sufficient variety and frequency to provide an opportunity for all students to participate. For additional information please call 714-564-6214.

STUDENT LIFE AT SANTA ANA COLLEGE

Campus Information

The **Student Handbook** is an official student guide which provides a reference on how to take full advantage of the College and its services and also answers questions students may have about Student Life. Handbooks are available online at **sac.edu** under the Student Life page.

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The campus newspaper, prepared by journalism students, is distributed to various locations on and off the campus.

Associated Student Government (ASG)

ASG encourages all qualified students to serve in a variety of elected and appointed student government positions and provides student representation for the entire district. Interested students should contact their representatives in the student government office for more information at 714-564-6208.

Student Life

The ASG, Inter-Club Council (ICC), and Student Life Offices sponsor a variety of educational and social programs, campus activities and services to encourage student leadership and create a vibrant student life environment on campus. ASG plans multicultural events, health awareness events, holiday and themed events, panel discussions, and services for the community. The Inter-Club Council sponsors special events designed for club involvement. The Student Life Office, in addition to coordinating events, provides information regarding student government, clubs, organizations, commencement, and the student lounge "The Spot". For more information call us at 714-564-6214.

Clubs, Organizations, and Inter-Club Council (ICC)

Numerous student interest groups are active throughout the year. Representatives from each club participate in the Inter-Club Council (ICC), a coordinating body functioning to promote participation in Student Life. For additional information, you can call 714-564-6214.

Student Placement

The Student Placement Office assists currently enrolled students in obtaining student assistant/work study employment on-campus and at approved community locations. Students are encouraged to take advantage of this excellent opportunity to gain work skills while attending Santa Ana College. For more information visit the office located in VL-106 or call 714-564-6201.

Teacher Ed

The Center for Teacher Education is dedicated to providing a variety of outreach, retention, and transfer activities for future teachers.

U-Link

U-Link is a a UC transfer bound program that has a guarantee admission to UCI. U-Link is open to all Santa Ana College students.

University Transfer Center

The University Transfer Center (UTC), which is located in S-110 at Santa Ana College, provides information and assistance to students who are preparing to transfer to a four-year university of their choice. UTC has designated counseling appointments and services for transfer bound students. During the fall and spring semesters, the University Transfer Center hosts College Fairs with representatives from California and out-of-state colleges and universities who provide admissions information to potential students. University representative appointments are also available for students as well as an up-to-date resource library and other information about transfer programs. The University Transfer Center also hosts transfer application workshops which are offered during priority filing periods. In addition, field trips to various university campuses are offered throughout the academic school year. For more information call 714-564-6165 or email **transfer_center@sac.edu**.

Veterans Resource Center

The Veterans Resource Center is dedicated to supporting veterans and military connected students as they transition from military service to college and civilian life. The VRC services include the following: Assistance with accessing VA Education Benefits, specialized orientations and workshops, college preparation and retention through Department of Education TRiO grants, through the Southern California Veterans Upward Bound program (SoCalVUB), and Veteran Student Support Services (VSSS). academic counseling, a dedicated space to study and use computers, mentorship opportunities, dedicated campus tours, and referrals to on and off campus veterans programs and resources, VA work-study opportunities, and opportunities to meet and socialize with other veterans at the college. For additional information or assistance, call the VRC at 714-564-6050, visit the website at **sac.edu/vrc**, or come to our office at SAC in the west side of the Planetarium building, M-120.

Veteran Education Benefits

Veterans and eligible persons who wish to utilize their education benefits must notify the VRC prior to the beginning of each semester by completing a Certification Request Form after having completely registered in courses required for their program. Courses must apply towards the approved degree or certificate offered at Santa Ana College. Other documentation such as Educational Plans, DD-214s, and Certificates of Eligibility will be needed for new students.

Satisfactory academic progress must be maintained by all VA applicants. All those collecting VA educational benefits are required to immediately report any changes of classes, **both adds and drops**, to the VRC as this may cause overpayments. Veterans and eligible dependents/spouse who are on academic probation [below 2 grade point average (GPA)], or progress probation [attempted units exceeds 50% of completed units], must show a continued improvement in GPA or course completion with each semester after the deficiency. A student who is on academic probation shall have VA educational benefits certification suspended after showing two semesters without satisfactory progress towards graduation requirement of 2 GPA. In such instances, a student will not be certified for a third semester and must petition for recertification. The student must show a counselor-approved program indicating what course of action must be completed to maintain satisfactory progress towards graduation or completion requirements.

Types of Benefits That Can Be Utilized

Veterans who qualify to receive benefits under the Montgomery Bill-Active Duty (Chapter 30), Montgomery Bill-Selected Active Reserve (Chapter 1606/1607), and eligible persons under the Survivors' and Dependents' Educational Assistance Program (Chapter 35) are encouraged to take advantage of their educational entitlement. Veterans with aggregate active duty after 9/10/01 may be eligible for the Post 9/11 Bill (Chapter 33). This program includes a basic allowance for housing (BAH), book stipend, and tuition/fees which are all based on the percentage of eligibility.

Dependents of Service members who died in the line of duty after September 10, 2001 could also use Chapter 33 benefits under the Marine Gunnery Sergeant John David Fry Scholarship. Veterans with a service-connected disability may be eligible for vocational rehabilitation (Chapter 31). This program provides eligible veterans with a monthly allowance or BAH as well as payment for tuition, most fees, and necessary books and supplies. War orphans, dependents, and survivors of veterans considered 100% disabled as the result of a service-connected disability, who died from those conditions, or who died while on active duty, may be eligible for benefits.

Applicants should seek information regarding eligibility and payments from the VA Regional Office in OK - 1-888-442-4551. The Veterans Affairs Office within the VRC will assist with the paperwork needed to initiate the certification of the courses for the eligible student.

Applying for Benefits

Each veteran and eligible person who wishes to enter Santa Ana College must follow the admissions procedures. See index for details on enrolling. Assistance is available in the VRC for those applying for the VA education benefits for the first time. For detailed information on the application process, please visit the GI Bill® website at **www.gibill.va.gov**. Please call or visit the VRC for details on the paperwork needed to initiate the certification process of the education benefits. Information can also be found on the VAO website: **sac.edu/vao**.

Veterans Priority Registration

Veterans eligible for Priority Registration under the California Education Code 66025.8 will need to fill out the form in the VRC to determine eligibility. Course protection Guarantee under the Veterans Benefits & Transition Act of 2018.

Transcripts and Program Approval

VA regulations require that prior credit from other educational institutions attended be evaluated and applied in the students' approved program. Therefore, evaluation of all prior credit must be done at the end of the first semester of attendance. If the required transcripts are not on file, the VAO will not be able to certify payment beyond the first semester. To avoid any delay in payments, the VAO requests that all official transcripts be on file with the Admissions Office at the beginning of the first semester of attendance.

Veterans and eligible persons must have each course approved prior to registering for each semester. The VA requires that the VAO monitor progress towards a specific degree plan or approved certificate. Therefore, for payment purposes, students must select a major and take only those courses on the student educational plan specifically required for that major. Academic Counselors are available to provide comprehensive counseling services within the VRC. If the students have attended previous schools, official transcripts must be on file before a college program can be approved by the counselor.

Course Protection Guarantee under the Veterans Benefits & Transition Act of 2018

Effective August 1st, 2019, Santa Ana College will allow Veterans under Chapter 33, Chapter 31 and dependents under Chapter 33TOE & Fry Scholarship upon meeting matriculation requirements to register in their courses without being dropped until the VA pays for their mandatory Tuition and Fees. In order to receive this benefit, the student MUST request to use their benefits by filling out the Certification Request Form and provide a copy of their Certificate of Eligibility or approval for for Chapter 31 Vocational Rehabilitation students. These forms are available at the VRC in M-120.

It will be the student's responsibility to pay the school any remaining balance should the student register in courses that is not in their approved plan, or if the student is not in the 100% level of entitled GI Bill® benefits.

Military Service Credit

Three units for health education and one unit for exercise science may be granted on the basis of military service when a DD-214 is submitted to Admissions and Records. A copy of the student's DD-214 will be forwarded to Admissions for proper credit if it is given directly to the VRC. The credit granted can be used in area F under Plan A. Under Plan B, three units of credit are granted in area E. Military credit is not accepted under Plan C.

Military Transcripts

Military transcripts are currently being accepted and evaluated in Admissions and Records. They may be applied towards electives or actual course equivalency. Official Academic Transcripts are required to be submitted during the first term the student attends the college.

Military Withdrawals

- Withdrawals due to military orders will not have adverse consequences. Admissions will use the following procedures:
- "MW" grade for compelled military withdrawal with annotated comment on transcript. (Military Withdrawal)
- Refund of enrollment, parking, and health fees.
- "MW" grade would not count in the progress probation calculation.
- Priority registration granted the first semester upon return.

Southern California Veterans Upwards Bound (SoCalVUB) & Veteran Student Support Services Program (VSSS)

Veterans Upward Bound (VUB) at Santa Ana College is a free U.S. Department of Education TRIO program designed to help eligible U.S. military veterans and reservists enter and succeed in the postsecondary school of their choosing. VUB at Santa Ana College offers an 8 week refresher course in Math and English 5 times a year. Feel free to stop by our office in M-120 or call us at 714-564-6288.

COLLEGE POLICIES AND STANDARDS

Absence/Non-Participation/Drop

It is the student's responsibility to -withdraw officially from a course via WebAdvisor.

However, because of enrollment demand a student may be dropped by the instructor when not appearing at the first class -meeting or not participating in the first course activity designated to account for active enrollment.

A student may be dropped for non-participation if he/she has missed in excess of 10% of the total course activities including but not limited to class attendance, discussions, assessments, etc.

Under extenuating circumstances, a student may be reinstated by the instructor.

Note: Only those drops completed prior to the refund deadline are eligible for refund consideration.

Attendance

Students are expected to attend all sessions of the classes in which they are enrolled. Students should report absences due to illness to the instructor immediately upon returning to class.

Auditing

Santa Ana College does not permit auditing of classes. Only students who are officially enrolled in a course may attend class.

Study Load

In order to meet the graduation requirements in four semesters, students should carry an average of 15 units each semester. Students will ordinarily not be allowed to register for more than 18 units.

When individual circumstances may require additional unit demand, an overload program in excess of 18 units may be approved for students who have maintained a B average or have satisfactory test scores on SCAT, SAT, ACT, or other similar measures that predict success, including the counselor's assessment of the difficulty of the program. Approval for such overloads may be secured from college counselors or the Dean of Counseling.

A summer session load should not exceed the equivalent of one unit per week or approximately nine units for an 8-week session. If over 9 units for summer or over 6 units for intersession, an overload petition is required.

Academic Honesty Policy Information

Introduction

Students at Santa Ana College are expected to be honest and forthright in their academic endeavors. To falsify the results of one's research, to steal the words or ideas of another, or to cheat on an examination, corrupts the essential process by which knowledge is advanced. Academic dishonesty is seen as an intentional act of fraud, in which a student seeks to claim credit for the work or efforts of another without authorization, or uses unauthorized materials or fabricated information in any academic exercise. As institutions, we also consider academic dishonesty to include forgery of academic documents, intentionally impeding or damaging the academic work of others, assisting other students in acts of dishonesty or coercing students into acts of dishonesty.

Procedures

In cases where a violation of academic honesty is discovered, the faculty member is encouraged to notify their appropriate supervisor and file a Maxient Incident Report.

There are two categories of sanctions: Limited and College-wide. Limited -sanctions include an academic action such as assigning a lower grade or a grade of "F" for the assignment, project, or test. College-wide sanctions include any sanction that will affect a student's standing with the college-at-large, up to and including suspension or expulsion from the College.

In matters relating to academic honesty violations, the primary responsibility for disciplinary proceedings rests with the instructor and the academic division where the violation allegedly occurred. The Associate Dean of Student Development will assist in all College-wide sanctions.

Academic Honors

Academic Honors at Graduation

Academic honors are awarded to students who do outstanding coursework leading to graduation from Santa Ana College. No association/affiliation with outside honor societies will be posted to the academic transcript or diploma. Graduation honors are awarded as follows:

PRESIDENT'S SCHOLAR. The President's Scholar designation is placed on the transcript and diploma of the graduate who has achieved an overall grade point average (GPA) of 3.5 while completing the Honors Program requirements. In addition, the President's Scholar graduate must have completed at least 30 units of coursework within the Rancho Santiago Community College District colleges. Fifteen units or more must be honors. All letter grades must be C or better. Rancho Santiago Community College District coursework and all transfer work will be computed in the Honor designated GPA.

WITH HIGHEST HONORS. The highest honors designation is placed on the transcript and diploma of the graduate who has achieved an overall grade point average (GPA) of 4.0. The highest honors graduate must have completed at least 30 units of coursework within the Rancho Santiago Community College District colleges of which 18 units or more must be letter grades. All letter grades must be A. Rancho Santiago Community College District coursework and all transfer work will be computed in the Honor designated GPA.

WITH HIGH HONORS. The high honors designation is placed on the transcript and diploma of the graduate who has achieved an overall grade point average (GPA) of 3.8. The high honors graduate must have completed at least 30 units of coursework within the Rancho Santiago Community College District colleges of which 18 units or more must be letter grades of A, B, or C. Rancho Santiago Community College District coursework and all transfer work will be computed in the Honor designated GPA.

WITH HONORS. The honors designation is placed on the transcript and diploma of the graduate who has achieved an overall grade point average (GPA) of 3.5. The honors graduate must have completed at least 30 units of coursework within the Rancho Santiago Community College District colleges of which 18 units or more must be letter grades of A, B, or C. Rancho Santiago Community College District coursework and all transfer work will be computed in the Honor designated GPA.

DEPARTMENTAL HONORS. Honors are awarded to students who do outstanding work in their departments. Eligibility is determined by inclusion in the honors categories listed above. Selection is made by departmental faculty with the division dean's approval.

COMPLETION OF HONORS TRANSFER PROGRAM

Completion of Honors Transfer Program designation is placed on the transcript of the graduate who has achieved an overall grade point average (GPA) of 3.0 while completing the Honors Program requirements. In addition, the Completion of Honors Transfer Program graduate must have completed at least 30 units of coursework within the Rancho Santiago Community College District colleges of which 15 units or more must be honors courses.

SEMESTER ACADEMIC HONORS. An honors list is issued each semester from the President's Office. Students are eligible by completing twelve or more units with a grade point average of 3.5 or better. Pass/no pass units are not considered in the twelve-unit requirement. Overall GPA must also be a 3.5 or better.

Academic Renewal

In as much as past performance does not always reflect accurately a student's actual ability, Santa Ana College has established a policy of academic renewal.Students may petition to have their academic record reviewed for academic renewal of substandard academic performance.

1. To be eligible, the student must have completed at least 15 units with a 3.0 GPA or 24 units with a 2.0 GPA or higher in sessions subsequent to the substandard work being petitioned. All lower division units from all colleges attended will be counted from the semester immediately following the substandard work.
2. The substandard academic renewal work will not count toward graduation or certification, and the permanent academic record shall be annotated in such a manner that all work remains legible. Up to 30 units combined of below "C" work from the Colleges may be disregarded in the computation of the grade point average. The student may choose the 30 units of substandard grades to disregard.
3. After an associate degree, or general education certification is posted, academic renewal without course repetition is not accepted.
4. Academic Renewal Without Course Repetition is solely the policy of the Rancho Santiago Community College District and may not necessarily be followed by other institutions.
5. Academic Renewal Without Course Repetition may be granted multiple times by Santa Ana College and/or Santiago Canyon College but is limited to a total of 30 units.
6. As a result of AB705, a student may seek grade alleviation without course repetition when the substandard work occurred in an English or Mathematics course that is part of a remedial (pre-transfer level) sequence OR in an ACE or EMLS course that is part of the sequence leading to transfer-level English (CSU GE area A2 or IGETC GE area 1A) once the student has successfully passed the transfer-level course, regardless of the student's overall academic record since the semester in which the "D", "F", or "NP" was earned.
    a. A student seeking alleviation under this scenario will be eligible for alleviation subject to these limitations: If a student received a grade of "C" or better or "P" in a transfer-level English course (CSU GE area A2 or IGETC GE area 1A APPROVED course), the highest grade earned shall be used when computing the student's cumulative grade point average. Grades earned in courses in a remedial English sequence pre-requisite to a transfer-level course may only be alleviated once the student earns a satisfactory grade ('C" or better or "P") in the transfer-level course. Neither the student's academic record since earning the "D", "F", or "NP" grade nor the time elapsed since earning the "D", "F", or "NP" is relevant to this scenario. The units alleviated in this scenario shall not be counted as part of the maximum 30 units of substandard work allowed under the first provision of AR 4240.
    b. A student seeking alleviation under this scenario will be eligible for alleviation subject to these limitations: If a student received a grade of "C" or better or "P" in a transfer-level Mathematics or Quantitative Reasoning course (CSU GE Area B4 or IGETC GE 2A approved course), the highest grade earned shall be used when computing the student's cumulative grade point average. Grades earned in courses in a remedial Math sequence pre-requisite to a transfer-level Mathematic or Quantitative Reasoning course may only be alleviated once the student earns a satisfactory grade ('C" or better or "P") in the transfer-level course. Neither the student's academic record since earning the "D", "F", or "NP" grade nor the time elapsed since earning the "D", "F", or "NP" is relevant to this scenario. The units alleviated in this scenario shall not be counted as part of the maximum 30 units of substandard work allowed under the first provision of AR 4240.
    c. A student seeking alleviation under this scenario will be eligible for alleviation subject to these limitations: If a student received a grade of "C" or better or "P" in a transfer-level English course (CSU GE area A2 or IGETC GE area 1A APPROVED course), the highest grade earned shall be used when computing the student's cumulative grade point average. Grades earned in the ACE or EMLS sequence pre-requisite to the transfer-level English course (CSU GE are A2 or IGETC GE area 1A APPROVED course) may only be alleviated once the student earns a satisfactory grade ('C" or better or "P") in the transfer-level course. Neither the student's academic record since earning the "D", "F", or "NP" grade nor the time elapsed since earning the "D", "F", or "NP" is relevant to this scenario. The units alleviated in this scenario shall not be counted as part of the maximum 30 units of substandard work allowed under the first provision of AR 4240.

When Academic Renewal Without Course Repetition occurs under this section, the student's permanent academic record shall be annotated in such a manner that all work remains legible, ensuring a true and complete academic history. This petition is submitted to Admissions and Records.

Campus Regulations

1. The Rancho Santiago Community College District supports liberal policies regarding free speech for individual students, college staff, nonofficial college groups, and visiting speakers.
2. Publicity for off-campus activities and organizations must be stamped by the Student Life office located in the Village, VL-108.
3. Posting flyers to promote campus events must be stamped by the Student Life office.
4. Santa Ana College is an alcohol and drug free campus; smoking is prohibited on campus except in designated areas. California Code A.B.846, Chapter 342-New Law (2004) prohibits smoking within 20 feet of main entrances or exits of buildings of California Community Colleges.

These regulations are available to all students and staff in the Student Life office, located in the Village, VL-108.

Please refer to Standards of Student Conduct (**page 70**) for specific policies.

Cooperative Work Experience Education

The Cooperative Work Experience Education Program represents a joint educational venture between the student, a college in the Santa Ana College, and a participating employer. Under terms of the program, qualified students may earn up to four units per semester on a Pass/No Pass basis for educational experiences on the job and coordinated coursework at Santa Ana College. Further information will be found in the course section of the catalog. Call the appropriate division for further -information.

Course Repetition

A student who earns a D, F, W, or NP grade may repeat the course up to two times to improve the grade of the substandard work. Withdrawals (notations of W) will count toward the two allowable repeats. A student may not repeat a course more than two times to alleviate substandard work.

A student may not repeat a course to change a grade of C or above. (Note this same procedure may be followed in case of grades UF and WF which appear on some older transcripts.) Courses repeated under the provisions of this section will be indicated as repeated on the permanent academic record of the student.

Course repetition at Santa Ana College does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institutions.

Repeatability of Courses

Courses may be repeated under the following circumstances:

Substandard Work: A student has up to three enrollments in the same course (SAC and SCC combined) to receive a passing grade. After two attempts, the student loses the ability to register for the class online. A repeat form must be completed and submitted to the Admissions Office. **After three attempts, the student can no longer register for the course within this college district.**

Non Repeatable Course: A student who earns a D, F, NP or W grade may repeat the course twice to improve the grade of the substandard work. The last grade earned will count in the GPA calculation. Courses repeated under the provisions of this section will be indicated as repeated on the permanent academic record of the student. A student may not repeat a course to change a grade of C or better. **After three enrollments, the class must be completed outside the Rancho Santiago Community College District.**

Significant Lapse of Time: Students may be permitted to repeat the course no less than 36 months since the most recent grade was obtained AND an institution of higher education to which a student wishes to transfer has established a recency requirement that the student cannot satisfy without repeating the course (Title 5, §55043). Students may submit a Petition for Course Repetition Exception Form to repeat the course. Grades awarded for courses repeated under this provision shall replace the original grade. Only one repetition may be used for significant lapse of time (W grade counts towards repetition).

Legally Mandated Training: Repetition of courses for which the student is legally mandated by statue or regulation. Pursuant to Title 5 Section 55040, of the California Code of Regulations, Santa Ana College has adopted the following policy with regard to repeating courses for which the student has certified or documented that course repetition is legally mandated. Student may submit a Petition for Course Repetition Exception Form to repeat a course.

Course repetition shall be permitted in cases where such repetition **is necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment.** Such courses may be repeated for credit, any number of times, regardless of whether or not substandard work was previously recorded, and the grade and units received each time shall be included for purposes of calculating the student's grade point average. Santa Ana College reserves the right to require a student to certify or document in writing that course repetition is necessary to complete legally mandated training pursuant to this section.

Variable Unit Courses. When a course is designated as repeatable and is also variable unit, the number of repeats dictates how many times the course may be enrolled in for credit. A variable unit course which is not designated as repeatable may be registered for until the maximum number of units has been attempted. No portion of the class may be repeated to improve grade point average.

Courses Related in Content (commonly referred to as a Family of Courses)

New regulations governing the repetition of credit courses in the California Community College system effective Fall 2013 have eliminated certain repeatability in the Art, Dance, Kinesiology (activity courses), Music, and Theatre departments. While students will not, in most cases, be allowed to repeat active participatory courses in these departments, students will still be allowed to enroll in a series of active participatory courses that are related in content (commonly referred to as a family of courses) a maximum of four times.

A family of courses may include more than four courses, but students are limited to a maximum of four courses in any family. Further, all grades, including W, will count toward the four course enrollment limitation. Students can repeat Art, Dance, Kinesiology (activity courses), Music, and Theatre Arts courses that are included in Families of Courses in which an NP, D, F, or W was assigned; however, all enrollments count toward the 4 enrollment maximum for each family of courses.

For further questions regarding enrollment into a Family of Courses, contact the Admissions and Records office.

Credit By Examination

1. Applications for credit by examination may be obtained in the Admissions and Records Office at Santa Ana College. The student will be advised whether a testing fee is to be charged and where it should be paid. Applicants must be currently enrolled at Santa Ana College and be in good standing.
2. The list of courses which may be challenged for credit by examination is available in the division offices at Santa Ana College.
3. Except in the case of Registered Nursing courses, the student must not enroll in a course which is to be challenged. In the event a student decides to challenge a course in which he or she is already enrolled, he or she must withdraw from that course **prior to the end of the second week of instruction.**
4. Credit may be earned only for courses that are: 1) currently listed in the catalog, and 2) specifically designated by the appropriate dean as courses that are eligible for credit by examination. A student may attempt credit by examination only once in a particular course.
5. Students should be aware that some divisions offer credit by examination only on specific dates; therefore, students should obtain examination schedules from the appropriate offices as early in the semester as possible.The dean, in consultation with the department involved, will determine whether a departmental or a standardized examination is to be administered and when and where it will be administered. At this same time, the student will be given a course outline and any other pertinent information detailing subject matter requirements of the course being challenged.

6. Students may apply for credit by examination in sequential courses, but may take examinations for the courses having prerequisites in the sequence only if credit has been earned by examination or coursework in the earlier course(s) of the sequence.
7. Grading of the examination is on a Pass/No Pass basis. Pass represents a grade of "C" or better and will be shown on the transcript as "credit by examination". Grades less than "C" will be reported to the college Admissions and Records Office but not recorded on the transcript. "Pass" grades will be computed as units earned but will not be counted in the grade point average.
8. The examiner shall transmit examination results to the Santa Ana College division office. The division dean will review the examination results and will transmit this information to the Admissions and Records Office.
9. Units for which P is given in this category will not be counted in determining the 12 semester hours of credit in residence required for a certificate or an associate degree.

Examinations

It is expected that the instructor will give at least two evaluations of student performance prior to the issuance of mid-term grades and at least one other evaluation before the final examination. Final examinations are required in all courses.

Right To Review and Challenge Records

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 30 days of the day the college receives a request for access.
   Students should submit to the Registrar, or Dean of Admissions, written requests that identify the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected.
2. The right to request the amendment of the student's education records that the student believes is inaccurate.
   Students may ask the college to amend a record that they believe is inaccurate. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate.
3. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
4. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without con-sent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.
   A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. Upon request, the college discloses education records without consent to officials of another school in which a student seeks or intends to enroll. [NOTE: FERPA requires an institution to make a reasonable attempt to notify the student of the records request unless the institution states in its annual notification that it intends to forward records on request.]
5. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Santa Ana College to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:
   Family Policy Compliance Office
   U.S. Department of Education
   400 Maryland Avenue, SW
   Washington, DC 20202-5901

If students wish, copies of materials contained in the files subject to their review will be provided at a cost of $1 per page.

Pass/No Pass Petition

Pass/No Pass encourages students to explore academic areas outside a major field.

1. Courses in the student's major field may not be taken under the Pass/No Pass policy except for major courses for associate degrees for transfer, courses for which Pass/No Pass is the only grading option, and units earned through credit by examination or assessment.
2. Every university has a limitation on the number of courses/units that can be taken for Pass/No Pass and applied to graduation and may require General Education taken Pass/No Pass to be retaken for a letter grade. Universities sometimes prefer that students have letter grades in English, mathematics, speech, and critical thinking courses. Courses that meet major requirements at a university (other than major requirements for ADTs) typically must be taken for a letter grade. Also, Pass/No Pass grades could have a negative effect on scholarships and international students. In addition, students who plan to pursue graduate or professional studies later are advised to be selective in opting for courses on a Pass/No Pass basis. If the student is unclear about requirements, it is best to consult with a counselor before using the Pass/No Pass option.
3. Except as in item number one above, a maximum of 6 Pass/No Pass units may be carried during any one semester.
4. A maximum of 14 Pass/No Pass units is allowed for any degree program. This does not include units taken under credit by examination or assessment, or units earned in courses for which Pass/No Pass is the only grading option.
5. Pass/No Pass petitions are available at the Admissions and Records Office at Santa Ana College, and must be submitted between the first and fifth week of the fall and spring terms or thirty percent (30%) of the term, whichever is less. Pass/No Pass status cannot be changed back to a letter grade. Petition for Exception to Academic Regulation (A and G) will not be approved.
6. Pass indicates a "C" or better.

Withdrawal From Class

Students who cannot continue in a course have an obligation to withdraw officially. Students are encouraged to consult with instructors concerning class withdrawals.

Students must officially withdraw by the web through the last day of the 12th week of instruction (or 75 percent of a term, whichever is less) and receive a transcript symbol of "W".

All instructor-initiated drops "EA" (Excessive Absence) through the 12th week or 75 percent of the class, whichever is less, will be assigned a "W".

The academic record of a student who remains in a class beyond the time allowed by district policy must reflect a symbol other than a "W", except under extenuating circumstances.

Extenuating Circumstances

Excused Withdrawal (EW)

A student may petition for an Excused Withdrawal due to extenuating circumstances (reasons beyond the student's control). Extenuating circumstances are approved based upon verifiable documentation supporting the request. If approved, the petitioned classes will be designated with an "EW" (Excused Withdrawal) on the transcript. An "EW" will not be counted in progress probation or dismissal calculations nor will it be counted towards the permitted number of withdrawals or counted as an enrollment attempt.

Military Withdrawal (MW)

A student who is a member of an active or reserve U.S. military service and has received orders compelling a withdrawal from courses may request a military withdrawal. If approved, and"MW" will appear on the transcript for each course. "MW" shall not be counted in the permitted number of withdrawals nor shall it be counted in progress and dismissal calculations.

Students should file the petitions as soon as possible. The petition must be filed no later than one year following the awarding of the original grade.

Incomplete Work

When a student has attended regularly but because of illness or other unavoidable circumstances is unable to complete coursework or take the final examination, a grade of "I" may be given. If an "I" is issued, the instructor completes the Incomplete Grade Form which includes the condition(s) for removal of the "I", and the grade to be assigned if the condition(s) are not completed. A student may not register in some classes if an incomplete grade is pending. The work thus missed must be made up no later than one year following the end of the term in which it was assigned. A student may petition for a time extension due to unusual circumstances. It is the student's responsibility to contact the college Admissions and Records Office in such cases.

A final grade will be assigned when the work stipulated has been completed and evaluated according to the conditions set forth by the instructor or when the time limit for completing the work has passed.

Grades and Grade Point Average

Grades are based upon the quality of work completed, that is, upon actual accomplishment in courses offered for credit. Credit by examination, Pass/No Pass, "Ws," "MWs," "IPs" and "Is" are not figured into grade point averages. The grade point average is computed by dividing all other units attempted into all grade points received. The meaning of each grade and its value in grade points is as follows:

Grade			Grade Points
A	-	Excellent	4 per unit earned
B	-	Good	3 per unit earned
C	-	Satisfactory	2 per unit earned
D	-	Passing, less than satisfactory	1 per unit earned
F	-	Failing	0 per unit attempted
P	-	Pass	0 per unit earned
NP	-	No Pass	0 per unit attempted
W	-	Withdrawal	0 (no units earned)
EW	-	Excused Withdrawal	0 (no units earned)
MW	-	Military Withdrawal	0 (no units earned)
I	-	Incomplete	0 (no units earned)
IP	-	In Progress	0 (no units earned)
RD	-	Report delayed	0 (no units earned)
UF	-	Unauthorized Withdrawal	0 (no units earned)
WF	-	Withdrawal, Failing	0 (no units earned)

Transcripts

Students may obtain an official transcript of records by filing in person, online (**sac.edu**), or mailing a request to the Admissions and Records Office, Santa Ana College, 1530 W. 17th Street, Santa Ana, CA 92706. The first two transcripts will be issued without charge in person only, thereafter, a $3 charge will be assessed for each additional transcript. An $8 special handling fee will be charged for express transcripts. FedEx Next Day Delivery is available for an additional cost. All official transcripts are copies of the student's permanent record in the Office of Admissions and Records at the college. Only records prepared and issued directly from Admissions and Records will be considered official or certified for accuracy. Transcripts from other institutions are property of the college and will not be released.

Admissions and Records does not hold transcripts for final grades. It is the student's responsibility to verify that all grades have been posted via WebAdvisor before requesting transcripts.

Discrimination Complaints

Rancho Santiago Community College District does not discriminate on the basis of national origin, religion, age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, or military and veteran status, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics.

Students may file a discrimination complaint when they believe they have been deprived of a right granted to students by the Board of Trustees in any of the policies or regulations of the Rancho Santiago Community College District. The purpose of these complaint procedures is to resolve differences as fairly and expeditiously as possible while preserving the right of students and staff members. Students should contact the Vice Chancellor, Human Resources if they want to file a discrimination complaint or discuss their concerns of alleged discrimination. The procedures for filing and investigation of a

discrimination complaint can be found at: **rsccd.edu/discrimination**

Students can either file a discrimination complaint with the Vice Chancellor, Human Resources who can be contacted at
2323 N Broadway, Suite 407-2, Santa Ana, CA 92706
Telephone Number (714) 480-7489

Alternatively, the student can file a formal complaint with the State Chancellor's Office Web site **HERE**

Grievance Procedures For Students

Students may file a grievance when they believe they have been deprived of a right granted to students by the Board of Trustees in any of the policies or regulations of the Rancho Santiago Community College District by employees, students, or others. Discrimination and Harassment complaints will be addressed via the procedures outlined in Administrative Regulation 3435 (see above). The purpose of these grievance procedures is to resolve differences as fairly and expeditiously as possible while preserving the rights of students and staff members.

Procedure

1. Students shall first confer with the person who took the action or made the ruling to which they object no later than 10 days following the event which prompted the grievance. The appropriate administrator will assist the student in arranging an appointment between the student and the staff member
2. If the difference is not satisfactorily resolved, the student shall confer with the person's immediate supervisor. The appropriate administrator will assist in arranging the appointment between the student and the employee's supervisor.
3. If the grievance is still unresolved, the student may file a written statement setting forth the nature of the grievance on the Student Grievance Form with the Vice President of Student Services (or their designee) no later than thirty (30) days after conferring with the person's supervisor. The form should contain a description of the grievance including dates, times, pertinent facts, and the remedy sought by the student.
4. Upon receipt of the form, the Vice President of Student Services (or their designee) will send a Student Grievance Staff Response Form to both the staff member and the supervisor for completion within ten (10) days.
5. The Vice President of Student Services (or their designee) shall select a Student Grievance Panel*. The responsible administrator shall then forward the completed forms to the panel chair for review and recommendation. The panel shall have the power to make an appropriate investigation of the grievance and shall state its findings and make a recommendation.
6. If the grievance is sustained by the panel, it will recommend appropriate action for relief of the grievance and communicate this in writing to the person(s) to whom the grievance was directed. If the findings of the panel do not sustain the grievance, the panel shall communicate this finding in writing to the student who filed the grievance. The ruling of the Student Grievance Panel is final.

Student Grievance Panel Structure

- One non-voting chair (except in situations of a tie vote)
- One student representative
- One classified representative
- One faculty representative
- One administrative representative

NOTE: In addition to the college-specific Student Grievance Procedures outlined above, the Rancho Santiago Community College District has adopted a process for the resolution of grievances which are outlined in Administrative Regulation 3435. This regulation provides a process that can be used by any member of the RSCCD community to resolve a discrimination concern. Details about this process are located at **rsccd.edu/discrimination**

For assistance with any portion of this process, please feel free to contact the Office of the Vice President of Student Services at 714-564-6085 or the RSCCD Title IX Compliance Officer at 714-480-7489 during regular business hours.

Honors Program and Honors Courses

The Honors Transfer Program at Santa Ana College welcomes students who want to challenge themselves and offers honors sections of transferable general education courses, combined "stacked" classes, and contracts. The honors experience is characterized by close interaction with Honors Transfer Program faculty, small class size, and special projects and activities. The major benefits for members of the program include:

- Honors transfer agreements with several four-year institutions that offer minimally "priority consideration for admission," and in some instances guaranteed admission with additional GPA requirements. These Honors Transfer Program institutions include, among others: California State University Fullerton, Chapman University, Gonzaga University, La Sierra University, Mills College, Pitzer College, Pomona College, Occidental College, Tufts University, UCI, UCLA, and Whitman College in Washington. Changes are noted on the **honorstransfercouncil.org** website.
- Recognition of program completion on the Santa Ana College or the Santiago Canyon College transcript and diploma.
- Designation as a President's Scholar (for those students who qualify).
- Recommendation by the Faculty Officer of the Honors Program.
- Library privileges at some of the transfer institutions.
- Scholarship eligibility.
- Access to a counselor specializing in honors transfer requirements.

NOTE: No association/affiliation with outside honor societies will be posted to the academic transcript or diploma.

Any student wishing to become a member of the Honors Transfer Program must submit a completed application packet (available online at the SAC website or in the Honors Program Coordinator's office in D-428 at Santa Ana College). The following are considered minimum for acceptance into the program:

- Minimum cumulative GPA of 3.0 (in 6 transferable units for students already in college) or a minimum cumulative high school GPA of 3.0 for entering freshmen.
- Two academic references to be listed on the application.

The philosophy of honors studies at Santa Ana College is that honors courses are not more work than non-honors courses. Instead, honors courses are enriched and creative. Students may take honors courses without being in the Honors Transfer Program, as long as they meet the following guidelines:

- Students have a minimum cumulative 3.0 GPA, and
- Students meet the prerequisites of an honors course as stated in the schedule of classes.

All honors courses taught at either college within the Rancho Santiago Community College District are to be taken for a letter grade only, not P/NP.

NOTE: For the purposes of articulation, course repeatability, and academic renewal, honors courses are equated with their non-honors counterparts. For example, English 101 and English 101H are equated courses, so if a student received a passing grade of "C" or better, he

or she cannot take English 101H just to get "H" credit. Likewise, if a student received a non-passing grade in English 101H, he or she could take English 101 and, if the student receives a passing grade in that course, petition to have the English 101H non-satisfactory grade replaced through academic renewal with course repetition. Honors Transfer Program members who are enrolled in the HTP and who have gone through an Honors Orientation may also earn up to twelve units and within no more than three contracts through honors project contracts. Students may do more than three contracts, but only three will count toward completion of the Honors Program's requirements. Contracts will earn honors credit only when both the work for the contract and the regular coursework in the UC-transferable course tied to the contract have been completed and have earned an average grade of "B" or better. Contracts require the approval of the instructor of record for the course, the area division dean, and the HTP Coordinator. In the case of the STEM Honors Contract Addendum, more documentation will be required depending upon the activities involved. More information is available at the offices of the HTP and MESA Coordinators. Contract forms are available at the HTP Coordinator's office and by request through email. For more information, contact the Honors Transfer Program Coordinator at Santa Ana College, Kathy Patterson at 714-564-6528, or email **sac_honorstransferprogram@sac.edu**

Independent Study

Independent Study credit may be earned in any discipline. Transfer credit is designated as Independent Study 199; nontransfer credit is designated as Independent Study 099. These courses are offered on a credit/no credit basis.

Independent Study projects are normally for one unit of credit and require a minimum of 54 hours of directed work per unit of credit. Within the 54-hour minimum, the instructor meets with each student on a weekly basis for at least one hour or a minimum of 18 hours for each one unit project. Independent Study may be repeated for credit for a maximum of three units. Recommended projects of more than one unit must have prior approval from the Vice President of Academic Affairs. The proposal is subject to prior approval by the supervising instructor and the division dean in order for the student to enroll in Independent Study 099 or 199.

To be eligible for Independent Study, a student must be concurrently enrolled in at least one other class in the Rancho Santiago Community College District, with the exception of summer sessions. The student must also show evidence of competence in the academic major as well as the area in which independent study is proposed.

Open Enrollment

The policy of this district is that, unless specifically exempted by statute or regulation, every course, course section, or class, reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to regulations contained in Article 2.5 (commencing with Section 55200) of Sub Chapter 1 of Chapter 6 of Title 5 of the California Code of Regulations.

Photography

Santa Ana College/Santiago Canyon -College, a non-profit California Community College, reserves the right to use photography and video images of students and visitors, age 18 and older, taken on our property and at college-sponsored events for marketing and promotional purposes. Objection to the use of an individual's photograph may be made in writing to Public Affairs and Publications, RSCCD District Office, 2323 N. Broadway, Suite 408, Santa Ana, CA 92706.

Probation – Dismissal

A student's academic standing is calculated and reviewed at the end of each fall and spring semester, based only on his/her SAC/SCC cumulative GPA. There are three categories of academic standing: probation, subject to dismissal, and dismissal.

Probation

1. **Academic probation.** After attempting twelve or more units, a student is placed on probation when the SAC/SCC cumulative grade point average for all work attempted falls below 2.0. (W's are counted in the attempted units).
2. **Progress probation.** A student who has attempted a total of twelve units will be placed on progress probation when the percentage of all units in which a student has enrolled and for which entries of "W", "I", and/or "NP" are recorded reaches or exceeds fifty percent.

Academic/Progress Probation Intervention

Students placed on academic/progress probation are required to attend a counseling intervention workshop. An email notification is sent to the student and a registration hold is placed on the student record until completion of the workshop.

Loss of Priority Registration

1. **Academic probation.** Students who have two consecutive semesters with a Cumulative GPA below 2.0 will lose priority registration for the next registration period. Their registration date will be after all new applicants.
2. **Progress probation.** Students are placed on progress probation when the percentage of coursework at SAC/SCC that has an entry of "W", "I", "NP", and "NC" reaches or exceeds fifty percent (50%) of the coursework attempted.

IMPORTANT NOTE: Registration priority shall be lost at the first registration opportunity after a student is placed on academic or progress probation or any combination thereof for two consecutive terms.

Student Right to Appeal

A student has the right to appeal an exception to a current Santa Ana College academic policy, including academic probation and progress probation. Student must complete and submit a Priority Registration & California College Promise Grant Appeal form. Appeal forms are available in the Admissions & Records office.

Removal From Probation

1. Academic probation. A student on academic/progress probation shall be removed from probation when the student's cumulative grade point average reaches 2.0 or higher.
2. Progress probation. A student who has been placed on progress probation shall be removed from probation when the percentage of units for which entries of "W", "I", and/or "NP" falls below 50%.

Subject To Dismissal

A student's academic standing is calculated and reviewed at the end of fall and spring semester, based upon a SAC/SCC cumulative grade point average. Summer is not counted as it is considered a session because it is not a full semester. A student who is on academic probation shall be subject to dismissal if the student earned a SAC/SCC cumulative grade point average (GPA) of less than 2.0 in all units attempted in each of 2 consecutive semesters.

Dismissal

1. **Academic dismissal.** A student's academic standing is calculated and reviewed at the end of fall and spring semester, based upon a SAC/SCC cumulative grade point average. Summer is not counted as it is considered a session because it is not a full semester. A student who is on academic probation shall be dismissed if the student earned a SAC/SCC cumulative grade point average (GPA) of less than 2.0 in all units attempted in each of 3 consecutive semesters.
2. **Progress dismissal.** A student who has been placed on progress dismissal shall be dismissed when the percentage of units in which

the student has enrolled and for which entries of "W," "I," and/or "NP" are recorded reaches or exceeds 50% for three consecutive semesters.

3. **Dismissal after fall semester.** A student may be given the academic standing of "Subject to Dismissal" at the end of fall semester when his/her SAC/SCC cumulative GPA falls below 2.0 after three consecutive semesters. The student is given the grace period of spring semester to remain in school. However, an academic hold is placed on the student record in April to prevent any further registrations until all grades have been reviewed at the end of spring semester.
   If the student achieves a 2.0 GPA for the spring semester, the student is allowed to remain at the college on probationary status, despite a SAC/SCC cumulative GPA of less than 2.0. If the 2.0 GPA for spring is NOT achieved, the student is academically dismissed. Students who are academically dismissed have a HOLD placed on their record and receive an email notifying them of their academically dismissed status (AD).
4. **Petition for reinstatement after dismissal.** A student may initiate the process for reinstatement after dismissal at the end of spring semester by completing the Petition for Reinstatement After Dismissal form. This form is available in the Admissions and Records Office. A student can be reinstated if the spring semester GPA is 2.0 or better. If the spring semester GPA is less than 2.0, the student can petition using the Exceptions to Academic Regulations petition for reinstatement. This committee meets the week prior to the start of the fall semester. A student should make alternative plans in cases involving a denied petition. Students who have SAC as a home campus submit their petition to the SAC Admissions and Records Office.
5. **Consequence of academic dismissal.** A student cannot register for classes at SAC or SCC for one full semester. When the student returns to SAC or SCC after "-sitting" out one semester, the student returns on academic probation. In order to remain at SAC or SCC, the student must achieve a 2.0 semester GPA in the spring and fall semesters.

When a student is academically dismissed and the last semester GPA is less than 2.0, the student is denied reinstatement and may not enroll at SAC or SCC for one semester before enrolling to either college.

Remedial Course Limit

A student may complete a maximum of 30 semester units of basic skills remedial courses. Remedial courses include non-degree or pre-collegiate basic skills classes in math, English, reading, learning and study skills.

A waiver is required beyond 30 units. Students must show a "C" or better or a 2.0 GPA in remedial courses to qualify for a waiver. Waiver forms are available in counseling.

Standards Of Student Conduct

Guidelines for Student Conduct are set forth in the California Education Code, California Administrative Code, Title V, policies of the Board of Trustees (including BP/AR 3430 Prohibition of Harassment), and all civil and criminal codes. Students enrolling in district educational programs assume an obligation to obey state law and district rules and regulations governing the conduct of students.

Students who enroll in those instructional programs in which the college has affiliations with various outside associations must comply with the college's policies and procedures and also with the outside associations' policies and procedures. This includes but is not limited to students enrolled in the programs of Fire Academies, Criminal Justice Academies and Nursing.

Guidelines For Student Conduct

The following represent violations for disciplinary action, up to but not limited to expulsion, that may be taken:

a. Dishonesty, cheating, plagiarism, lying, or knowingly furnishing false information to the district or college officials performing their duties.
b. Forgery, alteration, or misuse of district documents, records, or identification.
c. Willful misconduct that results in damage to any real or personal property owned by the district or district employees (damage includes, but not limited to vandalism, such as cutting, defacing, breaking, etc.).
d. Obstruction or disruption of pedestrian or vehicular traffic or of teaching, research, administration, or of other district activities on or off District premises. This includes obstruction or disruption of administration, disciplinary procedures, or authorized college activities.
e. Assault, battery, or any threat of force or violence upon a student, college personnel, or campus visitor; willful misconduct which results in injury or death to a student, college personnel, or campus visitor. This includes fighting on district property or at a district sponsored event, on or off district premises.
f. Detention of any person on district-owned or controlled property or at district-sponsored or supervised functions or other conduct which threatens or endangers the health or safety of another.
g. Theft of any property of the district which includes property of a member of the district community or a campus visitor.
h. Unauthorized entry into or unauthorized use of district property, supplies, equipment, and/or facilities.
i. Misrepresentation of oneself or of an organization to be an agent of the district.
j. Sexual assault or physical abuse, including rape, forced sodomy, forced oral copulation, rape by a foreign object, sexual battery, or threat or assault, or any conduct that threatens the health and safety of the alleged victim, which includes students, college personnel, or campus visitors.
k. Use, possession, distribution, or being under the influence of alcoholic beverage on district property or at any district sponsored event.
l. Use, possession, distribution, or being under the influence of narcotics, other hallucinogenic drugs or substances, or any poison classified as such by Schedule "D" in Section 4160 of the Business and Professions Code on District property or at any District-sponsored event except as expressly permitted by law.
m. Engaging in expression which is libelous, slanderous, obscene (according to current legal standards) or which incites students so as to create a clear and present danger of commission of unlawful acts on district premises, or violation of district regulations, or the substantial disruption of the orderly operation of the college.
n. Possession or use while on the district premises, or a district-sponsored function, of any firearm, knife, explosive, or other dangerous object, including but not limited to any facsimile firearm, knife, or explosive. Exceptions include those participating in a criminal justice educational program who are authorized such possession or those who are enrolled in a course which authorizes such possession.
o. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative regulation.

p. Engaging in harassing or discriminatory behavior based on disability, gender, genderidentity, gender expression, nationality, race, or ethnicity, religion, age, sexual orientation or any other status protected by law.

q. Continuous disruptive behavior or willful disobedience, harassment, habitual profanity or vulgarity, open and persistent abuse of college personnel, or open and persistent defiance of the authority of college personnel.

r. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the Board of Trustees.

s. Violation of the Computer Usage Policy is applicable to students using computer classrooms, computer labs, the wireless network, or other locations on and off district property. A violation is considered any of the following:

(a) Accessing with or without permission, or causing to be accessed without authorization, altering, damaging, deleting, hacking, destroying, or otherwise using any data, computer, computer system, computer software and programs, or computer network belonging to or used by the college or any member of the District.

(b) Accessing with or without permission, taking, copying, or making use of any data from a computer, computer system, or computer network, or taking or copying any supporting documentation, whether existing or residing internal or external to a computer, computer system, or computer network belonging to or used by the college or District.

(c) Using or causing to be used computer services without permission.

(d) Disrupting or causing the disruption of computer services or denying or causing the denial of computer services to an authorized user of a computer, computer system, or computer network belonging to or used by the college or District.

(e) Introducing any computer contaminant or virus into any computer, computer system, or computer network belonging to the college or District.

(f) Sending any message using any computer system or network without authorization or sending any message in the name of another person or entity.

(g) Using any account or password without authorization.

(h) Allowing or causing an account number or password to be used by any other person without authorization.

(i) Accessing or causing to be accessed, downloading or causing to be downloaded, pornographic or obscene materials except when accessing such material which is part of the instructional process or assignment for a class in which the student is currently enrolled.

(j) Use of systems or networks for personal commercial purposes.

(k) "Cyberstalking", which is to be understood as any use of the college or district computer system, computer network, or computer programs to stalk another person via excessive messages or inquiries, inappropriate or threatening messages, racially motivated communications, photos or other means of communication.

t. Any act constituting good cause for suspension or expulsion, or violation of district policies or campus regulations.

To view the entire Board Policy 5500 Standards of Student Conduct, please view it at: **rsccd.edu/studentconduct**

Procedures for Student Grievances Regarding Grades

Education Code 76224 states:

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

Procedure

1. Student shall meet with the instructor to discuss the grade.
2. If the issue is not resolved and the student believes that the grade is based on a mistake, fraud, bad faith, or incompetency, (EC 76224), he/she may appeal in writing to the Division Dean. Such an appeal must be made within a one year period following the semester which the grade was assigned.
3. Forms for the written appeal may be found in any divisional Dean's office.
4. The student may be requested to set-up an appointment with the appropriate Division Dean to discuss the written grievance.
5. The appropriate Division Dean will review the allegations and consult with the instructor.
6. The Division Dean will review the issue and will notify the student and instructor in writing of his/her decision.
7. The decision of the Division Dean is final.

Transportation

Some classes may be conducted off campus. Unless students are specifically advised otherwise, they are responsible for arranging for transportation to and from the class site. Although the district may assist in coordinating the transportation and/or recommend travel times, route or caravanning, be advised that the district assumes no liability or responsibility for the transportation, and any person driving a personal vehicle is NOT an agent of the district.

Transfer Credit

Santa Ana College will give credit for college units earned at another regionally accredited college or university. In order for transfer units to be applied towards a petition for degree or transfer certification, all official transcripts from other colleges must be on file in Admissions office.

Unit of Credit

A unit of college credit represents three hours of student time each week for a semester; one hour of scheduled classroom lecture and two hours in outside preparation. A longer time is scheduled for laboratory courses since more of the work is done in the classroom. One full quarter unit is equal to two-thirds of a semester unit.

Registered Sex Offender Information

Sex offenders are required to register with the police in the jurisdiction in which they reside and at institutions of higher learning if they are students there or if they work there as employees, contractors, or volunteers. Sex offenders who may be required to register should do so at the Santa Ana Police Department if attending Santa Ana College or Centennial Education Center and at the Orange Police Department if attending Santiago Canyon College or Orange Education Center."

Members of the general public may request community notification flyers for information concerning sexually violent predators in a particular community by visiting the office of local law enforcement in their community. Local police may be contacted at:

Santa Ana Police Department, 60 Civic Center Plaza, Santa Ana, CA 92701 714-245-8665

Orange Police Department, 107 N. Batavia Street, Orange, CA 92867 714-744-7444

Registered sex offender information is available at the Megan's Law website: **meganslaw.ca.gov**

Wait List Policy

You are not able to Wait List more than one section per course. You cannot Wait List a course that will conflict with another course. As seats become available, eligible students will be moved into an open seat. You will be notified by email (it is your responsibility to make sure that your e-mail is up-to-date) and will have 3 calendar days to pay for the course or you may be dropped. If your name remains on the Wait List, you must attend the first class meeting and obtain the instructor's add code to add the course (Log in to WebAdvisor often to check your status on the waitlist).

COLLEGE CREDIT INSTRUCTIONAL PROGRAMS

Programs of study leading to the certificate or the associate degree or certification in specialized vocational areas are alphabetically arranged.

Programs which lead to transfer to universities and four-year colleges do not necessarily reflect the transfer requirements of specific schools. If the student wishes to receive an associate degree in a specific discipline, the requirements as set forth must be met. However, in planning a program for transfer, it should be noted that the transfer requirements for both the major and general education vary widely. Hence it is recommended that the student review the catalog of the school of transfer and consult with the counseling staff of Santa Ana College in planning transfer objectives.

Required sequences and frequency of course offerings as well as length of time required to obtain a degree or certificate can be found on the college website at: **sac.edu/academicaffairs/coursesequences**.

ACCOUNTING

Accounting Degree: AS

Program code: SAC.ACCT.AS

Program Control Number: 04187

The associate degree in accounting prepares students for entry-level positions and promotional opportunities in accounting, taxation, and administrative departments of businesses in areas such as manufacturing, merchandising, financial service, wholesale trades, and government. Specialized training in accounting enables students to maintain accounting records and develop financial reports and make effective use of financial information for analysis and decision-making. Entry- level employment opportunities include positions in accounts receivable and accounts payable, payroll, income tax preparation, and cost accounting. Promotional opportunities include higher- level responsibilities in these areas and the areas of general ledger, financial statement preparation, and financial statement analysis.

Learning Outcome(s):

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

1. Students will create clear, concise, well organized written business documents, including financial statements, memos and reports, that can be used in an effective manner to communicate.
2. Students will acquire adequate technical knowledge to create financial information to be used in the accounting and related business environment.
3. Students will be able to combine critical thinking skills and technical knowledge to solve problems in a constantly-changing professional environment.

Required Core Courses		Units:	21
ACCT 101	Financial Accounting	4	
ACCT 102	Managerial Accounting	4	
ACCT 104	Federal and California Taxes	4	
ACCT 210	Accounting Information Systems	3	
BUS 150	Introduction to Information Systems and Applications	3	
MGMT 122	Business Communications	3	
–OR–			
BUS 222	Business Writing	3	

Select a minimum of 3 units from the following electives:

		Units:	**3-4**
ACCT 108	Tax Practices and Procedures	3	
ACCT 113	Intermediate Income Taxes – Corporations	2	
ACCT 114	Intermediate Income Taxes - Partnerships and LLCs	2	
ACCT 124	Computerized Income Tax Preparation	1	
ACCT 125	Volunteer Income Tax Assistance (VITA) I	2	
ACCT 204	Managerial Cost Accounting	3	
ACCT 205	Intermediate Accounting I	3	
ACCT 206	Intermediate Accounting II	3	
ACCT 211	Auditing	3	
ACCT 212	Accountants' Ethics and Responsibilities	4	
		Total:	**24-25**

Computerized Accounting - QuickBooks: Certificate of Achievement *(Transcripted)*

Program code: SAC.ACCTQ.CA

Program Control Number: 13446

A certificate in accounting prepares students for entry-level positions and for promotional opportunities in accounting departments of businesses, including areas such as manufacturing, merchandising, financial services, wholesale trades, and government. Specialized training in computerized accounting systems enables students to maintain accounting records, develop financial reports, and make effective use of financial information for analysis and decision-making. Entry-level employment opportunities include positions in accounts receivable, accounts payable, payroll, and cost accounting. Promotional opportunities include higher-level responsibilities in these areas and the areas of general ledger, financial statement preparation, and financial statement analysis.

Learning Outcome(s):

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

1. Students will acquire general knowledge of Quickbooks and Accounting and be able to perform the duties of an entry level clerk in a business

Required Core Courses:		**Units:**	**13**
ACCT 032	Payroll Accounting	1	
ACCT 035	QuickBooks I	2	
ACCT 036	QuickBooks II	2	
ACCT 101	Financial Accounting	4	
ACCT 124	Computerized Income Tax Preparation	1	
BUS 150	Introduction to Information Systems and Applications	3	

Select a minimum of 3 units from the following:		**Units:**	**3-4**
BUS 222	Business Writing	3	
–OR–			
MGMT 122	Business Communications	3	
BA 188	Microsoft Excel	2	
BA 189	Advanced Microsoft Excel	2	
		Total:	**16-17**

Computerized Bookkeeping - QuickBooks Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.ACCTBQ.CA

Program Control Number: 19391

The associate degree and certificate curriculum in accounting prepares students for entry-level positions and promotional opportunities in accounting, taxation and administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. Specialized training in accounting and finance principles and practices enables students to maintain accounting records and develop financial reports and make effective use of financial information for analysis and decision-making. Entry-level employment opportunities include positions in accounts receivable/ payable, payroll, income tax preparation, cost accounting, and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these areas and the areas of general ledger, financial statement preparation and financial statement analysis.

Learning Outcome(s):

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

1. Students will acquire general knowledge of Quickbooks and accounting to enter into a business environment as an entry-level clerk utilizing Quick Books.

Required Core Courses:		**Units: 1 to 4**
ACCT 035	QuickBooks I	2
ACCT 032	Payroll Accounting	1
BA 179	Introduction to Microsoft Office	3
Select one of the following courses:		**Units: 3-4**
ACCT 010	Accounting Procedures	3
ACCT 101	Financial Accounting	4
BA 017	Business Writing Skills	3
MGMT 122	Business Communications	3
BUS 222	Business Writing	3
Select one of the following courses:		**Units: 3**
Select a minimum of 1 unit from the following electives:	**Units:**	**1-2**
ACCT 124	Computerized Income Tax Preparation	1
BA 188	Microsoft Excel 2	2
BA 189	Advanced Microsoft Excel	2
		Total: 13-15

Professional Accounting - Accounting Study & Ethics:

Certificate of Achievement *(Transcripted)*

Program code: SAC.ACTSE.CA

Program Control Number: 35675

This certificate is designed for an individual that has a bachelor's degree other than in accounting that wishes to be licensed as Certified Public Accountant (CPA). This certificate in conjunction with Certificate of Professional Accounting – Accounting Subjects and Certificate of Professional Accounting – Business Subjects will prepare an individual for the CPA exam as well as meet the educational requirements for licensure. Alternatively, a student that already possesses a bachelor's degree in Accounting from a major College or University may solely complete this certificate to fulfill the educational requirements for licensure. The courses contained in this certificate meet the specific course requirements set forth by the California Board of Accountancy (CBA) including the requirements of SB 773. Upon successful completion of this certificate along with the Certificate of Professional Accounting – Accounting Subjects and Certificate of Professional Accounting – Business Subjects, a student will have taken all the necessary Accounting, Business and Ethics courses required for licensure (license granted upon successful passing of the Uniform CPA exam). CPA licensure affords promotional opportunities in public accounting, taxation, as well as administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. This certificate covers accounting and ethical principles necessary for financial reporting, analysis and critical review of accounting information. Entry-level employment opportunities include professional positions in financial statement auditing, income tax preparation, cost accounting, financial reporting and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these same areas.

Learning Outcome(s):

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

1. Make ethical decisions in the workplace.
   a. Students will complete 10 hours of ethics courses including ACCT 212 Accountants' Ethics and Responsibilities.
   b. Students will incorporate ethical standards in Accountants' Ethics and Responsibilities class through case study review, research and discussion.
2. Understand accounting and business concepts.
   a. Students will demonstrate accounting and business concepts in the certificate classes through examination and practical exercises.
   b. Students will prepare accounting and business reports based upon relevant accounting and business principles.
3. Communicate effectively orally and in writing.
   a. Students will draft research papers & case study reports.
   b. Students will use proper grammar, punctuation, and spelling.
4. Be proficient in using accounting technology.
   a. Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
   b. Students will complete assignments using accounting-specific software.
5. Exhibit critical thinking skills.
   a. Students will analyze cases related to the accounting specialty classes.
   b. Students will analyze fact patterns to demonstrate the application of accounting principles to fact patterns.

Note 1: Some of the courses listed in this certificate overlap with courses listed in the Certificate of Professional Accounting – Accounting Subjects and/or the Certificate of Professional Accounting – Business Subjects. It is imperative that an individual does not take any courses for this certificate that have already counted towards either the Certificate of Professional Accounting – Accounting Subjects or the Certificate of Professional Accounting – Business Subjects. Additionally, a student must understand the requirements for "Accounting Study" set forth by the CBA and listed below:

Minimum 6 semester units in accounting subjects

Maximum 14 semester units in business-related subjects

Maximum 9 semester units in other academic work relevant to business and accounting (maximum 3 units from any one area):

Skills-based courses – Courses completed in the following disciplines: English, Communications, Journalism, and the Physical, Life, Natural, & Social Sciences

Foreign Languages/Cultural & Ethnic Studies – Courses in foreign languages (including sign language) and courses with the terms "culture, cultural, or ethnic" in the titles

Industry-based courses – Courses with the words "industry" or "administration" in the title or courses completed in the following disciplines: Engineering, Architecture, and Real Estate

Maximum 4 semester units in internships/independent studies in accounting and/or business-related subjects

For more information regarding the "Accounting Study" educational requirements set forth by the CBA please refer to: **dca.ca.gov/cba/applicants/ed-requirements.shtml**

Note 2: While a bachelor's degree is not a prerequisite to obtain this certificate, the student needs to obtain a bachelor's degree for CPA exam eligibility (may occur concurrently). In addition to passing the Uniform CPA exam and meeting the educational requirements, an individual must also meet general accounting and business work experience as required by the CBA for licensure.

Please refer to **dca.ca.gov/cba/index.shtml** for a complete list of al l requirements and options for licensure requirements for a CPA.

Note 3: A student may be eligible to sit for the CPA exam concurrent with obtaining this certificate. To qualify and sit for the Uniform CPA exam one will need a bachelor's degree and evidence of at least 24 semester units of business-related subjects and 24 semester units of accounting subjects. For more information regarding this requirement, please refer to:

dca.ca.gov/cba/applicants/ed-requirements.shtml

Requirements

Ethics - Required Courses		**Units: 10**
ACCT 212	Accountants' Ethics and Responsibilities	4
BUS 101	Business Law	3
–OR–		
BUS 105	Legal Environment of Business	3
PHIL 108	Ethics	3

Accounting Study - Accounting Subjects Electives		**Units:**	**6**
ACCT 035	QuickBooks I	2	
ACCT 036	QuickBooks II	2	
ACCT 104	Federal and California Taxes	4	
ACCT 108	Tax Practices and Procedures	3	
ACCT 113	Intermediate Income Taxes – Corporations	2	
ACCT 114	Intermediate Income Taxes - Partnerships and LLCs	2	
ACCT 124	Computerized Income Tax Preparation	1	
ACCT 170	Microsoft Dynamics for Financial Accounting - Core Modules	4	
ACCT 204	Managerial Cost Accounting	3	
ACCT 205	Intermediate Accounting I	3	
ACCT 206	Intermediate Accounting II	3	
ACCT 210	Accounting Information Systems	3	
ACCT 211	Auditing	3	
Accounting Study - Business Subjects Electives - Select No More Than 14		**Units:**	**14**
BUS 100	Fundamentals of Business	3	
BUS 120	Principles of Management	3	
BUS 121	Human Relations and Organizational Behavior	3	
BUS 125	Introduction to International Business	3	
BUS 130	Personal Finance	3	
BUS 140	Principles of Finance	3	
BUS 160	Introduction to Stock and Bond Investments	3	
BUS 222	Business Writing	3	
MKTG 113	Principles of Marketing	3	
CMPR 167	Microsoft Access	3	
BA 188	Microsoft Excel	2	
BA 189	Advanced Microsoft Excel	2	
		Total:	**30**

Professional Accounting - Accounting Subjects:

Certificate of Achievement *(Transcripted)*

Program code: SAC.ACTSU.CA

Program Control Number: 35674

This certificate is designed for an individual that has a bachelor's degree other than in accounting that wishes to be licensed as Certified Public Accountant (CPA). This certificate in conjunction with Certificate of Professional Accounting – Business Subjects and Certificate of Professional Accounting – Accounting Study & Ethics will prepare an individual for the CPA exam as well as meet the educational requirements for licensure. The courses contained in this certificate meet the specific course requirements of section "Accounting Subjects" set forth by the California Board of Accountancy (CBA). Upon successful completion of this certificate along with the Certificate of Professional Accounting – Business Subjects and Certificate of Professional Accounting – Accounting Study & Ethics, a student will have taken all the necessary Accounting, Business and Ethics courses required for licensure (license granted upon successful passing of the Uniform CPA exam). CPA licensure affords promotional opportunities in public accounting, taxation, as well as administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. This certificate covers accounting principles necessary for financial reporting, analysis and critical review of accounting information. Entry-level employment opportunities include professional positions in financial statement auditing, income tax preparation, cost accounting, financial reporting and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these same areas.

Learning Outcome(s):

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

1. Understand accounting concepts.
   a. Students will demonstrate accounting concepts in the accounting classes through ex amination and practical exercises.
   b. Students will prepare accounting financials based upon accounting principles.
2. Communicate effectively orally and in writing.
   a. Students will draft research papers & case study reports.
   b. Students will use proper grammar, punctuation, and spelling.
3. Be proficient in using accounting technology.
   a. Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
   b. Students will complete assignments using accounting-specific software.
4. Exhibit critical thinking skills.
   a. Students will analyze cases related to the accounting specialty classes.
   b. Students will analyze fact patterns to demonstrate the application of accounting principles to fact patterns.

Note 1: Some of the courses listed in this certificate overlap with courses listed in the Certificate of Professional Accounting – Business Subjects and/or the Certificate of Professional Accounting – Accounting Study & Ethics. It is imperative that an individual does not take any courses for this certificate that have already counted towards either the Certificate of Professional Accounting – Business Subjects or the Certificate of Professional Accounting – Accounting Study & Ethics.

Note 2: While a bachelor's degree is not a prerequisite to obtain this certificate, the student needs to obtain a bachelor's degree for CPA exam eligibility (may occur concurrently). In addition to passing the Uniform CPA exam and meeting the educational requirements, an individual must also meet general accounting and business work experience as required by the CBA for licensure.

Please refer to **dca.ca.gov/cba/index.shtml** for a complete list of all requirements and options for licensure requirements for a CPA.

Note 3: A student may be eligible to sit for the CPA exam concurrent with obtaining this certificate. To qualify and sit for the Uniform CPA exam one will need a bachelor's degree and evidence of at least 24 semester-units of business-related subjects and 24 semester-units ofaccounting subjects. For more information regarding this requirement, please refer to: **dca.ca.gov/cba/applicants/ed-requirements.shtml**

Requirements

Accounting Subjects - Required Courses		**Units:**	**21**
ACCT 101	Financial Accounting	4	
ACCT 102	Managerial Accounting	4	
ACCT 104	Federal and California Taxes	4	
ACCT 205	Intermediate Accounting I	3	
ACCT 206	Intermediate Accounting II	3	
ACCT 211	Auditing	3	
Accounting Subjects - Electives - Select a minimum of 3 units:		**Units:**	**3-4**
ACCT 113	Intermediate Income Taxes – Corporations	2	
ACCT 114	Intermediate Income Taxes - Partnerships and LLCs	2	
ACCT 204	Managerial Cost Accounting	3	
ACCT 210	Accounting Information Systems	3	
		Total:	**24-25**

Professional Accounting - Business Subjects: Certificate of Achievement *(Transcripted)*

Program code: SAC.ACTBS.CA

Program Control Number: 35703

This certificate is designed for an individual that has a bachelor's degree other than in accounting that wishes to be licensed as Certified Public Accountant (CPA). This certificate in conjunction with Certificate of Professional Accounting – Accounting Subjects and Certificate of Professional Accounting – Accounting Study & Ethics will prepare an individual for the CPA exam as well as meet the educational requirements for licensure. The courses contained in this certificate meet the specific course requirements of section "Business Subjects" set forth by the California Board of Accountancy (CBA). Upon successful completion of this certificate along with the Certificate of Professional Accounting – Accounting Subjects and Certificate of Professional Accounting – Accounting Study & Ethics, a student will have taken all the necessary Accounting, Business and Ethics courses required for licensure (license granted upon successful passing of the Uniform CPA exam). CPA licensure affords promotional opportunities in public accounting, taxation, as well as administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. This certificate covers business & finance principles necessary for financial reporting, analysis and critical review of accounting information. Entry-level employment opportunities include professional positions in financial statement auditing, income tax preparation, cost accounting, financial reporting and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these same areas.

Learning Outcome(s):

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

1. Understand accounting & business concepts.
   a. Students will demonstrate accounting & business concepts in the certificate classes through examination and practical exercises.
   b. Students will prepare accounting & business reports based upon relevant accounting & business principles.
2. Communicate effectively orally and in writing.
   a. Students will draft research papers & case study reports.
   b. Students will use proper grammar, punctuation, and spelling.
3. Be proficient in using accounting technology.
   a. Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
   b. Students will complete assignments using accounting specific software.
4. Exhibit critical thinking skills.
   a. Students will analyze cases related to the accounting specialty classes.
   b. Students will analyze fact patterns to demonstrate the application of accounting principles to fact patterns.

Note 1: Some of the courses listed in this certificate overlap with courses listed in the Certificate of Professional Accounting – Accounting Subjects and/or the Certificate of Professional Accounting – Accounting Study & Ethics. It is imperative that an individual does not take any courses for this certificate that have already counted towards either the Certificate of Professional Accounting – Accounting Subjects or the Certificate of Professional Accounting – Accounting Study & Ethics.

Note 2: While a bachelor's degree is not a prerequisite to obtain this certificate, the student needs to obtain a bachelor's degree for CPA exam eligibility (may occur concurrently). In addition to passing the Uniform CPA exam and meeting the educational requirements, an individual must also meet general accounting and business work experience as required by the CBA for licensure.

Please refer to **dca.ca.gov/cba/index.shtml** for a complete list of all requirements and options for licensure requirements for a CPA.

Note 3: A student may be eligible to sit for the CPA exam concurrent with obtaining this certificate. To qualify and sit for the Uniform CPA exam one will need a bachelor's degree and evidence of at least 24 semester units of business-related subjects and 24 semester units of accounting subjects. For more information regarding this requirement, please refer to: **dca.ca.gov/cba/applicants/ed-requirements.shtml**

Business Subjects - Required Courses		**Units:**	**13**
ACCT 204	Managerial Cost Accounting	3	
–OR–			
ACCT 210	Accounting Information Systems	3	
ECON 120	Principles/Macro	3	
ECON 121	Principles/Micro	3	
MATH 219	Statistics and Probability	4	

Business Subjects - Electives - Select a minimum of 11 units from below or from any courses not taken in required section above:	**Units:**	**11-12**
ACCT 108	Tax Practices and Procedures	3
ACCT 113	Intermediate Income Taxes – Corporations	2
ACCT 114	Intermediate Income Taxes - Partnerships and LLCs	2
ACCT 124	Computerized Income Tax Preparation	1
BUS 100	Fundamentals of Business	3
BUS 120	Principles of Management	3
BUS 121	Human Relations and Organizational Behavior	3
BUS 130	Personal Finance	3
BUS 140	Principles of Finance	3
BUS 160	Introduction to Stock and Bond Investments	3
BUS 222	Business Writing	3
MKTG 113	Principles of Marketing	3
CMPR 167	Microsoft Access	3
BA 188	Microsoft Excel	2
BA 189	Advanced Microsoft Excel	2
		Total: 24-25

Accounting and Financial Planning: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.ACCTF.CERT

A certificate in accounting prepares students for entry-level positions and promotional opportunities in accounting, taxation, and administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. Specialized training in accounting and finance principles and practices enables students to maintain accounting records and develop financial reports and make effective use of financial information for analysis and decision-making. Entry-level employment opportunities include positions in accounts receivable/payable, payroll, income tax preparation, cost accounting, and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these areas and the areas of general ledger, financial statement preparation, and financial statement analysis.

Learning Outcome(s):

1. Students will acquire adequate general knowledge of Quick Books & accounting to enter into a business environment as an entry-level clerk utilizing Quick Books.

Required Core Courses		**Units:**	**14**
ACCT 101	Financial Accounting	4	
ACCT 104	Federal and California Taxes	4	
BUS 130	Personal Finance	3	
BUS 160	Introduction to Stock and Bond Investments	3	
Select one of the following courses:		**Units:**	**3-4**
ACCT 102	Managerial Accounting	4	
BUS 140	Principles of Finance	3	
		Total:	**17-18**

Enrolled Agent: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.ACCTEA.CERT

The certificate curriculum in accounting prepares students for entry-level positions and promotional opportunities in accounting, taxation and administrative departments of businesses in public and private sector areas such as manufacturing, merchandising, financial service, wholesale trades, and government. Specialized training in accounting and finance principles and practices enables students to maintain accounting records and develop financial reports and make effective use of financial information for analysis and decision-making. Entry-level employment opportunities include positions in accounts receivable/payable, payroll, income tax preparation, cost accounting, and a number of trainee positions. Promotional opportunities include higher-level responsibilities in these areas and the areas of general ledger, financial statement preparation and financial statement analysis.

Learning Outcome(s):

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

1. Students will prepare basic tax returns for taxable and flow-through entities using commercially available tax software.
2. Students will develop a fundamental understanding of the components of taxable income determination across taxable entities, so that the student builds a foundation for effectively learning future tax laws.
3. Students will understand the basic rights and responsibilities of taxable entities in the U.S.

Required Core Courses:		**Units:**	**16**
ACCT 101	Financial Accounting	4	
ACCT 104	Federal and California Taxes	4	
ACCT 108	Tax Practices and Procedures	3	
ACCT 113	Intermediate Income Taxes – Corporations	2	
ACCT 114	Intermediate Income Taxes - Partnerships and LLCs	2	
ACCT 124	Computerized Income Tax Preparation	1	
		Total:	**16**

Bookkeeping: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.ACTBK.CERT

A certificate in general bookkeeping preparers a student with basic knowlege of bookkeeping to enter into a business environment. Entry-level employment opportunities include accounting or bookkeeping clerk in accounts receivable, accounts payable and payroll.

Learning Outcome(s):

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

1. Students will possess sufficient knowledge of bookkeeping to enter into a business environment as an entry-level bookkeeping clerk.

Required Core Courses:		**Units:**	**8-10**
ACCT 101	Financial Accounting	4	
ACCT 010	Accounting Procedures	3	
–OR–			
ACCT 032	Payroll Accounting	1	
BUS 150	Introduction to Information Systems and Applications	3	
Select one of the following courses:		**Units:**	**3**
BA 017	Business Writing Skills	3	
MGMT 122	Business Communications	3	
BUS 222	Business Writing	3	
Select a minimum of 3 units from the following electives:			
		Units:	**3-4**
ACCT 124	Computerized Income Tax Preparation	1	
BANK 010	Teller Training for Financial Institutions	2	
BA 188	Microsoft Excel	2	
BA 189	Advanced Microsoft Excel	2	
		Total:	**14-17**

Tax Preparer: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.TAXPR.CERT

A tax preparer certificate prepares a student with knowledge and practical experience for individual income tax preparation and receive the qualifying education required by the California Tax Education Council (CTEC) to become a California Registered Tax Preparer (CRTP). California law requires anyone who prepares (or assists with) tax returns for a fee, and is not an attorney, certified public accountant (CPA) or enrolled agent (EA), to register as a tax preparer with CTEC.

All CTEC Registered Tax Preparers (CRTP) must...

First complete qualifying tax education from a CTEC-Approved Provider

- Obtain a PTIN (Preparer Tax Identification Number) from the IRS
- Purchase a $5,000 tax preparer bond
- Register with CTEC within 18 months from the completion date on the certificate of completion
- CTEC requires a Registration Fee (amount varies by year)
- Upon completion of this certificate program, a student would fulfill the education requirement to become a CRTP.
- Entry-level employment opportunities include tax specialist and tax practitioner.
- Growth potentials include management-level positions and self-employment opportunities.

Learning Outcome(s):

1. Students will be able to process and file an individual federal tax return.

Required Core Courses:		**Units:**
ACCT 104	Federal and California Taxes	4
ACCT 125	Volunteer Income Tax Assistance (VITA) I	2
ACCT 106	Cooperative Work Experience Education\ - Occupational	1-4
ACCT 010	Accounting Procedures	3
–OR–		
ACCT 101	Financial Accounting	4
		Total: 10-14

AMERICAN SIGN LANGUAGE

American Sign Language: Certificate of Achievement

(Transcripted)

Program code: SAC.SIGN.CA

Program Control Number: 08710

The Certificate of Achievement in American Sign Language (ASL) is offered as preparation for developing linguistic competency in ASL and readiness for entering a formal Interpreter Training Program or as an added skill as a direct service provider: instructional assistant, social work, speech pathology, etc. The certificate indicates skill in the use of ASL for personal communication, knowledge of American Deaf Culture and an introductory awareness of Sign Language Interpreting and other professions working within the American Deaf community.

Learning Outcome(s):

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

1. Maintain an ongoing dialogue in ASL at an intermediate conversational level.

Required Core Courses:		**Units:**	**28**
ASL 110	American Sign Language I	4	
ASL 111	American Sign Language II	4	
ASL 113	Introduction to Interpreting for the Deaf	3	
ASL 114	Classifiers, Fingerspelling, and Numbering	3	
ASL 116	Introduction to Deaf Studies	3	
ASL 210	American Sign Language III	4	
ASL 211	American Sign Language IV	4	
THEA 110	Acting Fundamentals	3	
–OR–			
ETHN 101	Introduction to Ethnic Studies	3	
–OR–			
PSYC 170	Multicultural Psychology	3	
–OR–			
SLPA 160	Introduction to Communicative Disorders and Treatment	3	
–OR–			
CDEV 205	Introduction to Children with Special Needs	3	
–OR–			
CDEV 107	Child Growth and Development (DS1)	3	
		Total:	**28**

ANTHROPOLOGY

Anthropology Degree: AA

Program code: SAC.ANTH.AA

Program Control Number: 04254

The associate degree curriculum in anthropology is designed as a program of basic courses for students considering professional careers as archeologists, ethnographers, linguists, physical anthropologists; for those preparing to become social science teachers in elementary or secondary schools; for such diverse fields as psychology, medicine, law, political science, international relations, economics, or history; and for individuals who plan public service careers in social work, health and welfare programs, foreign service. Students should consult with faculty members for advice in selecting course offerings best suited to the individual's particular career objectives. The associate of arts degree prepares the student to move into a curriculum at a four-year institution leading to a baccalaureate degree in these careers.

Learning Outcome(s):

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

1. Students will be able to recognize and analyze the complex diversity of humans and their ancestors by examining our biological, cultural, and evolutionary adaptation utilizing the scientific method.

Required Core Courses:		**Units:**	**12**
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
ANTH 101	Introduction to Physical Anthropology	3	
ANTH 103	Introduction to Archaeology	3	
ANTH 104	Language and Culture*	3	
–OR–			
ANTH 104H	Honors Language and Culture*	3	

*Anthropology 104 or 104H are alternately listed as English 104 or 104H.

Emphasis: in addition to the Required Core Classes (12 units), an additional minimum of 6 units for the Anthropology Major may be taken from Category A or Category B.

Category A		**Units:**	**6-7**
ANTH 105	Ancient Mesoamerican Civilization	3	
ANTH 108	Religion, Magic, and Witchcraft	3	
ANTH 125	Native Americans in the U.S.**	3	
ECON 120	Principles/Macro	3	
ETHN 101	Introduction to Ethnic Studies	3	
–OR–			
ETHN 101H	Honors Introduction to Ethnic Studies	3	
GEOG 100	World Regional Geography	3	
–OR–			
GEOG 100H	Honors World Regional Geography	3	
GEOG 102	Cultural Geography	3	
–OR–			
GEOG 102H	Honors Cultural Geography	3	
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
–OR–			
WMNS 101	Introduction to Women's Studies	3	

**Anthropology 105 and Anthropology 125 are alternately listed as History 105 and History 125.

Category B			
ANTH 101L	Physical Anthropology Laboratory	1	
BIOL 109	Fundamentals of Biology	1	
–OR–			
BIOL 109H	Honors Fundamentals of Biology	3	
BIOL 109L	Fundamentals of Biology Laboratory	1	
BIOL 127	Ecology	1	
BIOL 149	Human Anatomy and Physiology	4	
BIOL 177	Human Genetics	3	
BIOL 211	Cellular and Molecular Biology	5	
BIOL 212	Animal Diversity and Ecology	5	
GEOG 101	Physical Geography	3	
GEOG 101L	Physical Geography Laboratory	1	
		Total:	**18-19**

Anthropology for Transfer Degree: AA-T

Program code: SAC.ANTH.AAT

Program Control Number: 33057

The Associate in Arts in Anthropology for Transfer (AA-T in Anthropology) is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Anthropology. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Arts in Anthropology for Transfer (AA-T in Anthropology) degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, in the Anthropology major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the Associate in Arts in Anthropology for Transfer (AA-T in Anthropology)students will have an understanding of both the breadth and depth of the Anthropology discipline. This knowledge will be grounded in the comprehension of Anthropology principles, concepts, ideas, theories, research, and terminology. Students will also have the capacity to write and think in a critical and analytical way about issues pertaining to Anthropology and its application.

Learning Outcome(s):

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

1. Students will recognize and analyze the complex diversity of humans and their ancestors by examining our biological, cultural, and evolutionary adaptation utilizing the scientific method.

Required Core Courses:		**Units:**	**9**
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
––AND––			
ANTH 101	Introduction to Physical Anthropology	3	
–AND–			
ANTH 103	Introduction to Archaeology	3	
LIST A: Select at least one 3 unit course		**Units:**	**3-4**
ANTH 104	Language and Culture	3	
–OR–			
ANTH 104H	Honors Language and Culture	3	
–OR–			
ANTH 101L	Physical Anthropology Laboratory	1	
–OR–			
SOCS 219	Statistics and Probability	4	
–OR–			
SOCS 219H	Honors Statistics and Probability	4	
LIST B: Select up to two (3-7 units) Any course from LIST A not already used.		**Units:**	**3-7**
PSYC 219	Introduction to Research Methods in Psychology	3	
–OR–			
BIOL 239	General Human Anatomy	4	
–OR–			
GEOL 101	Introduction to Geology	3	
–AND–			
GEOL 101L	Introduction to Geology Laboratory	1	
–OR–			
ERTH 110	Introduction to Earth Science	3	
–OR–			
ERTH 110H	Honors Introduction to Earth Science	3	
–OR–			
GEOL 140	Environmental Geology	3	
–OR–			
BA 150	Introduction to Geographic Information Systems	3	
LIST C: Select one (3 units) Any course from LIST A or B not already used.		**Units:**	**3-4**
ANTH 108	Religion, Magic, and Witchcraft	3	
–OR–			
ANTH 125	Native Americans in the U.S.	3	
–OR–			
ANTH 105	Ancient Mesoamerican Civilization	3	
–OR–			
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
–OR–			
SOC 100	Introduction to Sociology	3	
–OR–			
SOC 100H	Honors Introduction to Sociology	3	
–OR–			
GEOG 102	Cultural Geography	3	
–OR–			
PHIL 112	World Religions	3	
		Total:	**18-24**

ART

Art Degree: A.A.

Program code: SAC.ART.AA

Program Control Number: 04218

The associate degree curriculum in art provides students with an opportunity for individual creative stimulus and development. Completion of the associate of arts degree also prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree or into a professional art school. Please consult a SAC counselor for information about course requirements for particular institutions. Careers in fine arts include art education, interior design, gallery operation, art merchandising, studio artist, illustration, art criticism, computer graphics, and animation and related fields.

Learning Outcome(s):

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

1. Students will demonstrate visual literacy, including competency in non-verbal languages of art and design
2. Students will possess technical skills (at the sophomore level) for producing art in several media
3. Students will demonstrate competency and acquire experience in creating original work for public display.

Required Core Courses:		**Units:**	**29**
ART 100	Introduction to Art Concepts	3	
–OR–			
ART 100H	Honors Introduction to Art Concepts	3	
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3	
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3	
ART 105	History of Modern Art	3	
ART 110	Two-Dimensional Design	3	
ART 111	Three-Dimensional Design	3	
ART 130	Introduction to Drawing	3	
ART 131	Beginning Life Drawing	3	
ART 133	Introduction to Gallery Production	2	

ART 141	Beginning Painting	3
Electives are to be selected from the following:		**Units: 3-4**
ART 009	Art Lab	0.5
ART 010	Advanced Art Lab	0.5
ART 103	Arts of Africa, Oceania, and Indigenous North America	3
ART 104	Mexican and Chicano Art History	3
ART 106	Asian Art History	3
ART 108	Contemporary Art History: Art Since Mid-Twentieth Century	3
ART 121A	Fundamentals of Typography	3
ART 121B	Advanced Typography	3
ART 122	Graphic Design I	3
ART 132A	Beginning Pastel Drawing and Painting	3
ART 132B	Intermediate Pastel Drawing and Painting	3
ART 140B	Watercolor Painting	2
ART 140A	Watercolor Painting	2
ART 143	Landscape Watercolor	2
ART 150	Primitive Pottery Techniques	3
ART 154	Ceramics Summer Workshop	3
ART 155	Plaster Mold Making	3
ART 156	Clay Calculation: An Approach in Color Study	3
ART 157	Ceramics-Raku and Saggar Firing Techniques	3
ART 158	Ceramic Mural Project	3
ART 159A	Ceramic Color Decoration: Low Temperature	3
ART 159B	Ceramic Color Decoration: High Temperature	3
ART 164	Web Design	3
ART 165	3D Character Animation	3
ART 166A	3D Texturing and Lighting Fundamentals	3
ART 167	3D Commercial Applications	3
ART 182	Introduction to Jewelry	3
ART 195	Introduction to Digital Media Arts	3
ART 196A	3D Modeling Fundamentals	3
ART 230	Intermediate Drawing	3
ART 231	Intermediate Life Drawing	3
ART 232	Advanced Life Drawing	3
ART 233	Advanced Drawing	3
ART 240	Intermediate Watercolor	2
ART 241	Intermediate Painting	3
ART 242	Advanced Painting	3
ART 243	Portrait and Life Painting	3
ART 252	Ceramics-Advanced Study Process in Ceramics with Non-Traditional Media	3
ART 251	Ceramics-Advanced Throwing and Handbuilding	3
ART 253	Electric Kiln Ceramics	3
ART 282	Jewelry II	3
ART 283	Jewelry III	3
ART 298	Art Practicum	1-2.5
		Total: 32-33

Digital Media Arts Degree: AA

Program code: SAC.ARTDM.AA

Program Control Number: 04223

The Digital Media Arts program focuses on a rigorous program of design and media coursework in preparation for a career in digital media, digital design, design development and media publishing. The program develops visual communication skills in print, web and media development.

Learning Outcome(s):

1. Practice creative self-improvement through critical evaluation, application of design vocabulary and personal creative application.
2. Create unique visual communication packages in print, web and media design.
3. Create unique graphics for application across multiple media platforms.
4. Practice all aspects of the design production process in a professional manner, through client-based interactions, project management, and observation of deadlines.

Basic Foundations		**Units: 6**
ART 195	Introduction to Digital Media Arts	3
ART 110	Two-Dimensional Design	3
–OR–		
ART 111	Three-Dimensional Design	3
Digital Foundations		**Units: 12**
ART 121A	Fundamentals of Typography	3
ART 164	Web Design	3
ART 162	Digital Illustration I	3
ART 168	Graphic Design II: Branding & Identity	2
ART 122	Graphic Design I	3
Electives		**Units: 6**
ART 009	Art Lab	0.5
ART 121B	Advanced Typography	3
ART 125	Cooperative Work Experience - Occupational	1-6
ART 141	Beginning Painting	3
ART 111	Three-Dimensional Design	3
ART 241	Intermediate Painting	3
ART 230	Intermediate Drawing	3
ART 193	Motion Graphics with Adobe After Effects	3
ART 196A	3D Modeling Fundamentals	5
ART 197A	3D Animation Fundamentals	5
CMPR 112	Java Programming	3
PHOT 180	Beginning Photography	3
ART 192A	Digital Illustration II: Advanced Topics	3
ART 191A	Layout Design	3
ENTR 105	Social Media, Bootstrapping, and Market Validation	2
CMSD 102	Multimedia Storytelling	3
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3
ART 100	Introduction to Art Concepts	3
ART 100H	Honors Introduction to Art Concepts	3
ART 107	History of Animation	3
ART 130	Introduction to Drawing	3
		Total: 24

Graphic Design Degree: AA

Program code: SAC.ARTGD.AA

Program Control Number: 10665

The associate degree curriculum in Graphic Design prepares students for entry into the broad field of visual communication, with an emphasis on the development of problem solving in the practical application of graphic design. These applications include design for the print media, advertising, architectural and environmental graphics, packaging, logos, corporate identity, the web and other electronic media, using both digital media tools as well as traditional hand skills. Completion of this associate degree provides for entry into a profession in a variety of areas: e.g., advertising agency, printing house, design studio, freelance work and related businesses. This program plan is designed with transfer preparation to a 4-year university in mind. Please consult **assist.org** and meet with a counselor for information about courses for specific universities.

Learning Outcome(s):

1. Express through written research an understanding of the history of graphic design.
2. Create for an audience unique conceptual graphics that carry messages and meaning through visual symbolism.
3. Utilize professional software to design graphics with destination output in mind, addressing issues of file types, resolution, color profiles, and multiple media applications.

Foundation		**Units:**	**15**
ART 195	Introduction to Digital Media Arts	3	
ART 121A	Fundamentals of Typography	3	
ART 122	Graphic Design I	3	
ART 130	Introduction to Drawing	3	
ART 110	Two-Dimensional Design	3	
History & Appreciation		**Units:**	**3-6**
ART 100	Introduction to Art Concepts	3	
–OR–			
ART 100H	Honors Introduction to Art Concepts	3	
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3	
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3	
ART 103	Arts of Africa, Oceania, and Indigenous North America	3	
ART 104	Mexican and Chicano Art History	3	
ART 105	History of Modern Art	3	
ART 107	History of Animation	3	
Electives		**Units:**	**3-6**
ART 121B	Advanced Typography	3	
ART 193	Motion Graphics with Adobe After Effects	3	
ART 164	Web Design	3	
ART 162	Digital Illustration I	3	
ART 192A	Digital Illustration II: Advanced Topics	3	
ART 191A	Layout Design	3	
CMSD 123A	News Media Production	4	
CMSD 105H	Honors Mass Media and Society	3	
CMSD 105	Mass Media and Society	3	
ART 131	Beginning Life Drawing	3	
ART 140A	Watercolor Painting	2	
ART 141	Beginning Painting	3	
PHOT 180	Beginning Photography	3	
ART 009	Art Lab	0.5	
ART 111	Three-Dimensional Design	3	
Capstone		**Units:**	**2**
ART 168	Graphic Design II: Branding & Identity	2	
		Total:	**23-29**

Art History for Transfer Degree: AA-T

Program code: SAC.ARTH.AAT

Program Control Number: 32146

The Associate in Arts in Art History for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Art History, and then into careers in fine arts include art education, interior design, gallery operation, art merchandising, studio artist, illustration, art criticism, computer graphics and animation and related fields. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, although does not guarantee admission to a specific campus or major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Art History, students will be able to recognize specific styles of art, apply vocabulary pertinent to the discussion of art both in and out of the classroom, and demonstrate an understanding of the technical processes of various art media by developing an art portfolio that demonstrates a broad knowledge of subject matter. Furthermore, students will be able to demonstrate an understanding of the principles of design and the elements of art, as well as identify relationships between art and society in which it is created, and apply criteria for viewing and judging art.

Learning Outcome(s):

1. Demonstrate a working knowledge of the vocabulary of art, its materials, tools, and techniques.
2. Demonstrate skills in formal analysis and comparison/contrast of art works, artistic theory and criticism in oral and written form.
3. Demonstrate a general knowledge of history, its themes and chronology that are reflected in world art of the various periods of time.

Required Core Courses:		**Units:**	**9**
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3	
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3	
ART 130	Introduction to Drawing	3	
List A: Select one course (3 units)		**Units:**	**3**
ART 103	Arts of Africa, Oceania, and Indigenous North America	3	
–OR–			
ART 104	Mexican and Chicano Art History	3	
–OR–			
ART 106	Asian Art History	3	
List B: Select one course (3 units)		**Units:**	**3**
ART 110	Two-Dimensional Design	3	
ART 111	Three-Dimensional Design	3	
ART 131	Beginning Life Drawing	3	
ART 151	Ceramics-Introductory Level	3	
ART 195	Introduction to Digital Media Arts	3	
PHOT 180	Beginning Photography	3	

List C: Select one course (3 units) Any course from List A or B not already used.		**Units:**	**3**
ART 105	History of Modern Art	3	
ART 108	Contemporary Art History: Art Since Mid-Twentieth Century	3	
HIST 101	World Civilizations to the 16th Century	3	
HIST 101H	Honors World Civilizations to the 16th Century	3	
HIST 102	World Civilizations Since the 16th Century	3	
HIST 102H	Honors World Civilizations Since the 16th Century	3	
IDS 121	Humanities Through the Arts	3	
PHIL 112	World Religions	3	
		Total:	**18**

Total General Education CSU-General Education Breadth –OR– 41* Intersegmental General Education Transfer Curriculum (IGETC) 39*

CSU Transferable Elective As needed to Total 60 degree units Total Number of Degree Units 60

Studio Arts for Transfer Degree: AA-T

Program code: SAC.START.AAT

Program Control Number: 32272

The Associate in Arts in Studio Arts for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Studio Arts and then into careers in fine arts include art education, interior design, gallery operation, art merchandising, studio artist, illustration, art criticism, computer graphics, and animation and related fields. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, although does not guarantee admission to a specific campus or major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.**

Upon completion of the AA-T in Studio Arts, students will be able to recognize specific styles of art, apply vocabulary pertinent to the discussion of art both in and out of the classroom, and demonstrate an understanding of the technical processes of various art media by developing an art portfolio that demonstrates a broad knowledge of subject matter. Furthermore, students will be able to demonstrate an understanding of the principles of design and the elements of art, as well as identify relationships between art and society in which it is created, and apply developed criteria for viewing and judging art.

Learning Outcome(s):

1. Possess technical skills (at the sophomore level) for producing art in several media.
2. Demonstrate competency and acquire experience in creating original work for public display.
3. Demonstrate competency in critical analysis and verbal and written responses to visual phenomena.

Required Core Courses:		**Units:**	**12**
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3	
ART 110	Two-Dimensional Design	3	
ART 111	Three-Dimensional Design	3	
ART 130	Introduction to Drawing	3	
List A: select one course (3 units)		**Units:**	**3**
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3	
ART 103	Arts of Africa, Oceania, and Indigenous North America	3	
ART 104	Mexican and Chicano Art History	3	
ART 105	History of Modern Art	3	
ART 106	Asian Art History	3	
List B: select three courses (9 units)		**Units:**	**9**
ART 131	Beginning Life Drawing	3	
–OR–			
ART 230	Intermediate Drawing	3	
ART 141	Beginning Painting	3	
ART 151	Ceramics-Introductory Level	3	
ART 182	Introduction to Jewelry	3	
ART 195	Introduction to Digital Media Arts	3	
PHOT 180	Beginning Photography	3	
		Total:	**24**

Total General Education CSU-General Education Breadth –OR– 41* Intersegmental General Education Transfer Curriculum (IGETC) 39*

CSU Transferable Elective As needed to Total 60-degree units Total Number of Degree Units 60

3D Modeling and Animation Certificate A - Art Emphasis: Certificate of Achievement *(Transcripted)*

Program code: SAC.ART3A.CA

Program Control Number: 08734

The certificate program in 3D modeling and animation addresses the fundamental requirements that 3D artists are expected to know for entry-level positions in animation studios, advertising commercials, and video game companies, as well as bioscience, product, industrial and architectural design. Employment opportunities exist with small and large companies serving a broad spectrum of clientele in the delivery of still, animated, and interactive presentations. The certificate program is designed to develop the core technical skills required for these vast arenas of applications, as well as to increase the student's visual communication vocabulary and to raise awareness of the distinctive and evolving opportunities available in 3D.

Learning Outcome(s):

1. Students will demonstrate visual literacy, including competency in the non-verbal languages of art and design.
2. Students will demonstrate competency in critical analysis and verbal and written responses to visual phenomena.
3. Students will demonstrate competency in the core technical skills for 3D animation and modeling.

First semester, complete:		**Units:**	**14.5-17.5**
ART 184	Art of Animation I	3	
–OR–			
ART 195	Introduction to Digital Media Arts	3	
–AND–			
ART 185	Fundamentals of Cartooning and Storyboarding	3	
ART 166	Creating Realism with Textures and Lights	3	
ART 167	3D Commercial Applications	3	
ART 196A	3D Modeling Fundamentals	5	
ART 197A	3D Animation Fundamentals	5	
ART 296	Professional Art Production	1.5	
		Total:	**14.5-17.5**

Crafts Certificate in Jewelry: Certificate of Achievement *(Transcripted)*

Program code: SAC.ARTJW.CA

Program Control Number: 08726

The certificate program in crafts offers courses that provide the aesthetic, technical knowledge and special skills necessary to design and produce hand crafted objects. Whether the interest is in exhibiting crafts as an art form or producing work with more commercial applications, the program provides for study in two areas, jewelry/crafts and glass/crafts. This program is primarily designed to prepare art students as freelance artists/craftsmen.

Learning Outcome(s):

1. Demonstrate visual literacy, including competency in the nonverbal languages of art and design.
2. Demonstrate competency in critical analysis and verbal and written responses to visual phenomena.
3. Acquire the aesthetic knowledge and technical skills (including stone-setting and enameling) necessary to become a freelance artist/craftsman who creates hand-crafted jewelry.

Required Core Courses:		**Units:**	**16**
ART 130	Introduction to Drawing	3	
ART 182	Introduction to Jewelry	3	
ART 282	Jewelry II	3	
ART 283	Jewelry III	3	
ART 284	Introduction to Stone Setting-Jewelry	2	
ART 285	Introduction to Enameling-Jewelry	2	
		Total:	**16**

Digital Media Arts - Production Artist: Certificate of Achievement *(Transcripted)*

Program code: SAC.DMAPA.CA

Program Control Number: 21756

The Production Artist certificate reflects the rapidly changing industry skills for entry into the broad field of graphic design. Graduates of this program will find entry into the profession at various levels, with employment opportunities in the fields of advertising, graphic design, social media, printing industry, and e-commerce. Skills developed include options in digital print and media design.

Learning Outcome(s):

1. Create unique professional graphics based on client requests and business outcomes.
2. Create unique professional layouts for a variety of media projects and formats.
3. Identify and develop creative briefs to support design proposals that address client needs.
4. Develop graphic packages for multiple platform launch.

Required Core Courses:		**Units:**	
ART 195	Introduction to Digital Media Arts	3	
ART 121A	Fundamentals of Typography	3	
ART 122	Graphic Design I	3	
ART 168	Graphic Design II: Branding & Identity	2	
Design Coursework		**Units:**	**3**
ART 191A	Layout Design	3	
ART 162	Digital Illustration I	3	
ART 192A	Digital Illustration II: Advanced Topics	3	
Media Coursework		**Units:**	**3**
ART 164	Web Design	3	
ART 193	Motion Graphics with Adobe After Effects	3	
		Total:	**17**

Digital Media Arts - UX Design: Certificate of Achievement *(Transcripted)*

Program code: SAC.DMBUX.CA

Program Control Number: 21754

The UX Design program is designed to address technical skills and creativity in the areas of digital imaging, online page layout, graphic principles of web design, responsive design and interactive design elements for multimedia presentation. Students have options for developing additional skills through work experience, business marketing, or computer programming.

Learning Outcome(s):

1. Design unique professional graphics for use on the web.
2. Design unique professional page layouts for interactive use in web applications and online communications.
3. Test design outcomes and effectiveness through focused client testing.
4. Address responsive design concerns for client needs and desired outcomes.

Required Core Courses:		**Units:**	**12**
ART 195	Introduction to Digital Media Arts	3	
ART 162	Digital Illustration I	3	
ART 121A	Fundamentals of Typography	3	
ART 164	Web Design	3	
Electives		**Units:**	**6**
ART 125	Cooperative Work Experience - Occupational	1-6	
CMPR 118	JavaScript Programming	3	
ENTR 105	Social Media, Bootstrapping, and Market Validation	2	
ART 122	Graphic Design I	3	
		Total:	**18**

Public and Community Art - Mural Painting: Certificate of Achievement *(Transcripted)*

Program code: SAC.ARTMU.CA

Program Control Number: 35672

The certificate program in Public and Community Art – Mural Painting is designed to prepare students for employment in both the designing and painting of large-scale public art murals. These murals are in demand by communities (such as city governments, schools, parks) to enhance and beautify public and private sites and to combat blight and graffiti. Public and private institutions use murals to brand their visual logos and promote specific messages on their public sites. Private businesses also want to brand their locations with large paintings or murals that include visual images and graphic signage. Students in this program will utilize both digital and traditional techniques from visual composition, illustration, sign painting, and fine art painting while integrating historical, traditional and contemporary mural painting styles. Students will also gain the specialized training needed (including how to prepare exterior walls for murals, specialized paints and protective coatings, safety measures and specialized equipment, and composing designs digitally for large application) to confidently seek employment in the above areas.

Career opportunities include being the fine artist who creates, designs and paints murals, and/or using the acquired skills to be hired for mural restoration, as a fine arts painter, illustrator or the creation of hand- painted graphics; set and exhibit designer and creator, and also painter for construction and maintenance purposes.

Learning Outcome(s):

1. Increase and develop skills in both digital and traditional techniques including visual composition, illustration, sign painting, and fine art painting while integrating historical, traditional and contemporary mural painting styles.
2. Apply the mural creation process, from concept and composition through drawing, transferring design to site-specific locations or portable panels, painting, and post- production.
3. Utilize training specific to mural painting including composing designs digitally for large application, how to prepare exterior walls for murals, specialized paints and protective coatings, safety measures and specialized equipment.

Required Core Courses:		**Units:**	**21**
ART 110	Two-Dimensional Design	3	
ART 130	Introduction to Drawing	3	
–OR–			
ART 141	Beginning Painting	3	
ART 131	Beginning Life Drawing	3	
ART 190	Introduction to Mural Painting and Design	3	
ART 195	Introduction to Digital Media Arts	3	
ART 291	Mural Painting and Design II	3	
ART 292	Mural Painting and Design III	3	
Plus 1 course from elective list below: (2-3 units)		**Units:**	**2-3**
ART 122	Graphic Design I	3	
ART 124	Gallery Production	2	
ART 158	Ceramic Mural Project	3	
ART 168	Digital Media: Portfolio and Business Strategies	3	
ART 192A	Digital Illustration with Illustrator	3	
ART 232	Advanced Life Drawing	3	
ART 242	Advanced Painting	3	
ART 230	Intermediate Drawing	3	
ART 231	Intermediate Life Drawing	3	
ART 241	Intermediate Painting	3	
		Total:	**23-24**

Crafts Certificate D-Ceramics Emphasis: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.ARTCE.CERT

Learning Outcome(s):

1. Students will demonstrate visual literacy, including competency in the non-verbal languages of art and design.
2. Students will demonstrate competency in critical analysis and verbal and written responses to visual phenomena.
3. Students will possess the aesthetic knowledge and technical skills (including throwing, hand building and non-traditional media) necessary to become a freelance artist/craftsman who creates hand-crafted ceramics.

Required Core Courses:		**Units:**
ART 100	Introduction to Art Concepts	3
ART 111	Three-Dimensional Design	3
ART 251	Advanced Throwing and Hand Building	3
ART 252	Advanced Study Process in Ceramics with Non-Traditional Media	3
ART 253	Electric Kiln Ceramics	3
	Total:	**15**

Graphic Arts: Certificate of Proficiency *(Untranscripted)*

Program code: SAC. ARTGA.CERT

An express certificate program introducing students to major components of Graphic Design and Digital Media. The program prepares students for entry-level positions in the field of graphic arts and design related office work. The courses in this certificate are required for the AA degrees in Graphic Design and Digital Media Arts.

Learning Outcome(s):

1. Competently create digital designs using industry-standard design software and theories.
2. Demonstrate creative problem-solving skills.
3. Apply design knowledge to basic industry problems in multiple media applications; including web, print, and communication graphics.
4. Develop a digital media-based portfolio for application in entry-level design careers.

Required Foundation Courses		**Units:**	**6**
ART 195	Introduction to Digital Media Arts	3	
ART 110	Two-Dimensional Design	3	
Advanced Design Topics		**Units:**	**3**
ART 122	Graphic Design I	3	
–OR–			
ART 121A	Fundamentals of Typography	3	
–OR–			
History		**Units:**	**3**
ART 105	History of Modern Art	3	
–OR–			
ART 100	Introduction to Art Concepts	3	
–OR–			
ART 100H	Honors Introduction to Art Concepts	3	
–OR–			
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3	
–OR–			
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3	
–OR–			
ART 107	History of Animation	3	
		Total:	**12**

AUTOMOTIVE TECHNOLOGY

Automotive Technology Degree: AS

Program code: SAC.AUTO.AS

Program Control Number: 04209

In addition to the general education requirements, the associate degree curriculum in automotive technology is designed to prepare the student for employment in modern automotive service and repair. Technical instruction includes lecture and lab experiences in a variety of automotive subjects which the student may select according to his/her interests. Employment opportunities are available in dealerships, independent shops and civil service, both domestic and import.

Learning Outcome(s):

1. Demonstrate skills in locating service information and procedures on automotive systems.
2. Explain the eight areas of automotive as divided by Automotive Service Excellence (ASE).
3. Summarize how the vehicle systems work together to propel the vehicle.
4. Develop the skills to properly make measurements and analyze vehicle concerns.

Required Core Courses:		**Units:**	**3-4**
AUTO 102	Auto Essentials	3	
–OR–			
AUTO 106	Automotive Maintenance	4	
Plus 25 units selected from the following:		**Units:**	**25**
AUTO 122	Electronics Fundamentals	5	
AUTO 124	Electrical Systems	5	
AUTO 132	Engine Performance	5	
AUTO 143	Automatic Transmission Service	4	
AUTO 144	Manual Drive Train and Axles	4	
AUTO 145	Advanced Drive Train Systems	5	
AUTO 154	Steering and Suspension Service	4.5	
AUTO 153	Brakes	4.5	
AUTO 161	Automotive Air Conditioning, Heating and Ventilation Systems	5	
AUTO 172	Engine Diagnosis and Maintenance	4.5	
AUTO 176	Engine Repair	4.5	
AUTO 185	Basic Clean Air Car Course	5	
AUTO 186	Advanced Clean Air Car Course	2	
AUTO 187	BAR Specified Diagnostic and Repair	5	
AUTO 190	Automotive Manufacturer Specific I	2	
AUTO 191	Automotive Manufacturer Specific II	3	
AUTO 200	Automotive Service Advising	3	
AUTO 218	Advanced Engine Performance	4	
AUTO 260	Introduction to Electric Vehicles	4	
AUTO 280	Computer Control and OBD-2 Foundations	3	
AUTO 281	Fuel Injection Systems	3	
AUTO 282	Automotive Sensors	3	
AUTO 283	Diagnostic Test Equipment	3	
AUTO 284	OBD-2 Diagnosis and Networks	3	
AUTO 285	Hybrid Vehicles	3	
AUTO 287	Alternative Fuels	3	
AUTO 288	Diesel Engines: Light-Medium Duty Systems	3	
		Total:	**28-29**

Advanced Engine Performance Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.AUTAE.CA

Program Control Number: 13462

The certificate curriculum in advanced engine performance is designed to prepare students for entry into the specialized field of diagnosing, testing and repairing computer controlled ignition, fuel, and emission systems. It is recommended that students complete the Engine Performance & Electrical Option Certificate or have an equivalent trade experience.

Learning Outcome(s):

1. Explain modern vehicle on-board diagnostic systems
2. Apply diagnostic repair procedures on modern vehicles
3. Describe the function and operation of vehicle computer networking systems
4. Demonstrate skills in locating service information and procedures related to advanced engine performance systems
5. Describe the vehicle data measurements and analyze vehicle concerns

Required Core Courses:		**Units:**	**20**
AUTO 132	Engine Performance	5	
AUTO 280	Computer Control and OBD-2 Foundations	3	
AUTO 281	Fuel Injection Systems	3	
AUTO 282	Automotive Sensors	3	
AUTO 283	Diagnostic Test Equipment	3	
AUTO 284	OBD-2 Diagnosis and Networks	3	
		Total:	**20**

Automotive Business Technology: Certificate of Achievement *(Transcripted)*

Program code: SAC.AUTBU.CA

Program Control Number: 32750

The certificate curriculum in Automotive Business Technology is designed to prepare the student to better understand the business of automotive technology. Students would be qualified for entry level positions as automotive service advisors in dealerships, service establishments, automotive centers, and self-employment in the auto industry. Through the completion of this program, an automotive technician would be better aware of the business aspects of the automotive industry.

Learning Outcome(s):

1. Explain basic mechanical and electrical vehicle operation.
2. Examine customer needs and develop a plan to increase shop profitability.
3. Analyze an automotive repair facility and make recommendations for facility improvements.

Required Core Courses:		**Units:**	**18**
BUS 100	Fundamentals of Business	3	
AUTO 101A	Automotive Mechanical Operation	3	
AUTO 101B	Automotive Electrical Operation	3	
AUTO 200	Automotive Service Advising	3	
AUTO 201	Automotive Service Management	3	
AUTO 202	Automotive Independent Shop Ownership	3	

Electives: 3 Units Select electives from the following list		**Units:**	**3-4**
ACCT 101	Financial Accounting	4	
–OR–			
BA 163	Adobe Acrobat	3	
–OR–			
BA 179	Introduction to Microsoft Office	3	
–OR–			
MKTG 113	Principles of Marketing	3	
		Total:	**21-22**

Chassis Service Option: Certificate of Achievement

(Transcripted)

Program code: SAC.AUTCS.CA

Program Control Number: 08713

The certificate curriculum in chassis service is designed to prepare the student for entry into the specialized field of brake, front suspension and steering service on both import and domestic vehicles.

Learning Outcome(s):

1. Identify chassis and brake components on modern vehicles
2. Explain the function and operation of steering systems
3. Compare alignment measurements for modern vehicles
4. Express brake principles and function

Required Core Courses:		**Units:**	**20-21**
AUTO 102	Auto Essentials	3	
–OR–			
AUTO 106	Automotive Maintenance	4	
AUTO 122	Electronics Fundamentals	5	
AUTO 153	Brakes	4.5	
AUTO 154	Steering and Suspension Service	4.5	
AUTO 280	Computer Control and OBD-2 Foundations	3	
–OR–			
AUTO 283	Diagnostic Test Equipment	3	
–OR–			
AUTO 284	OBD-2 Diagnosis and Networks	3	
		Total:	**20-21**

Drive Train Service Option: Certificate of Achievement

(Transcripted)

Program code: SAC.AUTDT.CA

Program Control Number: 17343

The certificate curriculum in drive train service is designed to prepare the student for entry into the specialized field of standard and automatic transmissions, driveline, and differential service and repair on both import and domestic vehicles.

Learning Outcome(s):

1. Explain the purpose and function of transmission and drivetrain systems
2. Identify the different types of transmissions used in modern automobiles
3. Demonstrate proper disassembly and reassembly procedures of drivetrain components

Required Core Courses:		**Units:**	**21-22**
AUTO 102	Auto Essentials	3	
–OR–			
AUTO 106	Automotive Maintenance	4	
AUTO 122	Electronics Fundamentals	5	
AUTO 143	Automatic Transmission Service	4	
AUTO 144	Manual Drive Train and Axles	4	
AUTO 145	Advanced Drive Train Systems	5	
		Total:	**21-22**

Engine Performance and Electrical Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.AUTEP.CA

Program Control Number: 08714

The curriculum in engine performance and electrical service engine performance certificate is designed to prepare students for entry into the specialized field of domestic and import automotive engine performance, electrical and air conditioning service. Advances in electronics have increased the demand for technical skills and knowledge in these specialized areas.

Learning Outcome(s):

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

1. Use service information and diagnosis procedures to find electrical and engine performance related faults.
2. Use an automotive scantool to retrieve trouble codes and activate various outputs.
3. Explain how electronically controlled components are used by the engine control module and climate control system.

Required Core Courses:		**Units:**	**20**
AUTO 122	Electronics Fundamentals	5	
AUTO 124	Electrical Systems	5	
AUTO 132	Engine Performance	5	
AUTO 160	Foundations of Mobile Air Conditioning and Refrigeration	5	
–OR–			
AUTO 161	Automotive Air Conditioning, Heating and Ventilation Systems	5	
		Total:	**20**

Engine Service Option: Certificate of Achievement

(Transcripted)

Program code: SAC.AUTES.CA

Program Control Number: 08715

The certificate curriculum in engine service is designed to prepare students as engine service helpers and apprentices. Course content includes engine diagnostic skills, measurement, engine teardown, and assembly. Timing belts, variable cam timing, turbochargers, and other engine components are covered. The program will enable those already employed in the field to upgrade their skills in engine maintenance and service.

Learning Outcome(s):

1. Identify the different types of engine designs
2. Demonstrate engine assembly procedures
3. Explain engine maintenance requirements for modern gasoline engines

Required Core Courses:		Units:	20-21
AUTO 102	Auto Essentials	3	
–OR–			
AUTO 106	Automotive Maintenance	4	
AUTO 122	Electronics Fundamentals	5	
AUTO 172	Engine Diagnosis and Maintenance	4.5	
AUTO 176	Engine Repair	4.5	
AUTO 280	Computer Control and OBD-2 Foundations	3	
–OR–			
AUTO 281	Fuel Injection Systems	3	
–OR–			
AUTO 282	Automotive Sensors	3	
–OR–			
AUTO 283	Diagnostic Test Equipment	3	
–OR–			
AUTO 284	OBD-2 Diagnosis and Networks	3	
		Total:	**20-21**

Alternative Fuels and Hybrid Maintenance: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.AFHM.CERT

The Alternative Fuels and Hybrid Maintenance Certificate is designed to prepare the student for employment in industry on alternative fuels, hybrid vehicles, and modern clean diesel. Safety, operation, and light maintenance are emphasized. The various types of common alternative fuels are covered, CNG (Compressed Natural Gas) is highlighted.

Learning Outcome(s):

1. Learning about alternative fuels and hybrids in the industry will enhance students' critical thinking and reasoning skills for future technology.
2. Offer course content that assists students in obtaining careers in the automotive industry.

Required Core Courses:		Units:	9
AUTO 285	Hybrid Vehicles	3	
AUTO 287	Alternative Fuels	3	
AUTO 288	Diesel Engines: Light-Medium Duty Systems	3	
		Total:	**9**

Automotive Chassis Maintenance: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.AUTCM.CERT

The Automotive Chassis Maintenance Certificate is designed to prepare the student for employment diagnosing and serving automotive brake, steering, and suspension systems. Practical hands-on experience in tire balancing, front end alignment, brake service, and trouble codes is emphasized. This training assists the student in preparation for national ASE A5 Brakes and A4 Steering and Suspension certification.

Learning Outcome(s):

1. Learning about current brakes and steering and suspension techniques will enhance students' critical thinking and reasoning skills for future technology.
2. Offer course content that assists students in obtaining careers in the automotive industry.

Required Core Courses:		Units:	9
AUTO 153	Brakes	4.5	
AUTO 154	Steering and Suspension Service	4.5	
		Total:	**9**

BIOLOGY

Biological Science Degree: AS

Program code: SAC.BIOL.AS

Program Control Number: 04185

The associate degree in biological science prepares students for preprofessional careers and a curriculum in a four-year institution leading to a baccalaureate degree in such areas as microbiology, botany, zoology, molecular biology and teaching. The biologist is also prepared to enter graduate or professional programs of specialized study such as medicine, dentistry, medical technology, osteopathy, veterinary medicine, agriculture, forestry, optometry, cell biology, molecular biology and dental hygiene. See counseling for transfer requirements.

Learning Outcome(s):

1. Students will successfully complete the sequence of biology courses needed for transfer (Biology 211 and 212, or Biology 211 and 214)
2. Students will successfully transfer to universities.

Required Core Courses:		Units:	15
BIOL 211	Cellular and Molecular Biology	5	
BIOL 212	Animal Diversity and Ecology	5	
BIOL 214	Plant Diversity and Evolution	5	
–OR–			
BIOL 290	Biochemistry and Molecular Biology	5	
CHEM 229	General Chemistry and Qualitative Analysis	5	
Select a minimum of 3 units from the following electives:		**Units:**	**3-5**
BIOL 127	Ecology	1	
–OR–			
BIOL 128	Natural History of the California Coast	1	
–OR–			
BIOL 132	Natural History of Death Valley	1	
–OR–			
BIOL 133	Desert Biology	1	
–OR–			
BIOL 139	Health Microbiology	4	
–OR–			
BIOL 149	Human Anatomy and Physiology	4	
–OR–			
BIOL 169	Natural History of the Sierra Nevadas	1 to 3	
–OR–			
BIOL 177	Human Genetics	3	
–OR–			
BIOL 217	Pathophysiology	2	
–OR–			
BIOL 229	General Microbiology	5	
–OR–			
BIOL 239	General Human Anatomy	4	
–OR–			
BIOL 249	Human Physiology	4	
–OR–			
BIOL 259	Environmental Biology	4	
–OR–			
BIOL 129	Ecology of Southern California	1	
–OR–			
BIOL 131	Natural History of the Southwest	3	
–OR–			
BIOL 170	Environmental Challenge of the 21st Century		
		Total:	**18-20**

Biology for Transfer Degree: AS-T

Program code: SAC.BIOL.AST

Program Control Number: 35134

The Biology Associate in Science for Transfer degree (AS-T) prepares students for coursework leading to a baccalaureate degree in Biology at the CSU system. Please, consult a counselor regarding specific course requirements for your transfer institution. Completion of the AS-T degree also provides guaranteed admission with junior standing to the CSU system although it does not guarantee acceptance to a particular campus or major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Students earning a Biology AS-T must select either the IGETC for STEM or CSU_GE for STEM to complete the general education requirement. Upon completion of the Biology AS-T degree, students will have the necessary foundation for upper division coursework as biology majors. The Biology AS-T is a starting point for students who are preparing for careers in biological sciences, biomedical sciences and related fields including research, consulting and government work, where scientific and technical skills are in high demand.

Required Core Courses:		**Units:**	**15**
BIOL 211	Cellular and Molecular Biology	5	
–AND–			
BIOL 212	Animal Diversity and Ecology	5	
–AND–			
BIOL 214	Plant Diversity and Evolution	5	
List A			
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
–AND–			
CHEM 229	General Chemistry and Qualitative Analysis	5	
–AND–			
PHYS 279	College Physics I	4	
–AND–			
PHYS 289	College Physics II	4	
–OR–			
PHYS 217	Engineering Physics I	4	
–AND–			
PHYS 227	Engineering Physics II	4	
–AND–			
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
		Total:	**37**

Note: Only IGETC for STEM or CSU-GE for STEM will be accepted toward completion of the general education portion of this degree. IGETC and CSU-GE will not be accepted. (For those completing IGETC for STEM and planning to meet the CSU admission requirement an oral communication course, IGETC Area 1C, must be included.)

BIOTECHNOLOGY

Biotechnology Degree: AS

Program code: SAC.BIOT.AS

Program Control Number: 33690

The associate degree in biotechnology prepares students for careers in a wide variety of industry or for curriculum at a four-year institution leading to a baccalaureate degree in such areas as molecular biology, biochemistry, cell biology and microbiology. These fields provide career opportunities in biomanufacturing, research and development, and teaching. See counseling for transfer requirements.

Learning Outcome(s):

1. Students will know how to obtain a purified sample of a genetically engineered protein.

Required Core Courses:		**Units:**	**32**
BIOL 190	Introduction to Biotechnology	3	
BIOL 190L	Introductory Biotech Lab	1	
BIOL 191	Biotech A: Basic Skills	4	
CHEM 209	Introductory Chemistry	4	
BIOL 192	Biotech B: Proteins	4	
BIOL 194	Quality and Regulatory Compliance in Biosciences	2	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
BIOL 211	Cellular and Molecular Biology	5	
BIOL 193	Biotech C: Nucleic Acids	4	
		Total:	**32**

Biotechnology Laboratory Technician: Certificate of Achievement *(Transcripted)*

Program code: SAC.BTLT.CA

Program Control Number: 32959

This certificate curriculum is designed to prepare students with the skills they need to work in the upstream processing area of a biotechnology company or provide them with the foundation necessary to transfer to a 4 year university to continue their studies in biotechnology.

Learning Outcome(s):

1. Students will know how to subclone a gene into a cloning vector.

Required Core Courses:		**Units:**	**6**
BIOL 193	Biotech C: Nucleic Acids	4	
BIOL 202	Cell Culture Techniques	2	
At least 8 units from the following list		**Units:**	**8-10**
BIOL 177	Human Genetics	3	
BIOL 211	Cellular and Molecular Biology	5	
BIOL 290	Biochemistry and Molecular Biology	5	
BIOL 229	General Microbiology	5	
BIOL 139	Health Microbiology	4	
CHEM 229	General Chemistry and Qualitative Analysis	5	
BIOL 197	STEM Internship/Work Experience	1-4	
		Total:	**14-16**

Biotechnology Biomanufacturing Technician: Certificate of Achievement *(Transcripted)*

Program code: SAC.BTMFT.CA

Program Control Number: 32998

This certificate program in biotechnology biomanufacturing is designed to prepare students for entry level positions in the biomanufacturing industry in fields requiring basic laboratory skills such as aseptic technique, solution preparation, standard equipment utilization as well as knowledge of protein expression and purification.

Learning Outcome(s):

1. Students will know how to obtain a purified sample of a genetically engineered protein.

Required Core Courses:		**Units:**	**11**
BIOL 192	Biotech B: Proteins	4	
BIOL 194	Quality and Regulatory Compliance in Biosciences	2	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
		Total:	**11**

QC/QA Microbiology Technician: Certificate of Achievement *(Transcripted)*

Program code: SAC.BTLQC.CA

Program Control Number: 32999

This certificate curriculum in quality assurance and quality control microbiology and biology is designed to prepare students for careers in fields such as biotechnology, medical devices, pharmaceuticals, biologicals, food safety, biomanufacturing, and testing laboratories.

Learning Outcome(s):

1. Demonstrate knowledge of quality assurance and regulatory compliance.
2. Students will be able to keep an industry standard notebook.
3. Students will be able to preform industry standard quality control testing.

Required Core Courses:		**Units:**	**13**
BIOL 229	General Microbiology	5	
BIOL 195	Biotech: QC Microbiology	2	
BIOL 191	Biotech A: Basic Skills	4	
BIOL 194	Quality and Regulatory Compliance in Biosciences	2	
		Total:	**13**

Biotechnology Lab Assistant: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.BIOLA.CERT

This certificate program is designed to prepare students for entry level jobs as laboratory assistants in biotechnology and related fields.

Learning Outcome(s):

1. Students will be able to operate and maintain standard laboratory equipment.

Required Core Courses:		**Units:**	**12**
BIOL 190	Introduction to Biotechnology	3	
BIOL 190L	Introductory Biotech Lab	1	
BIOL 191	Biotech A: Basic Skills	4	
CHEM 209	Introductory Chemistry	4	
		Total:	**12**

BLACK STUDIES

Black Studies Degree: AA

Program code: SAC.BIST.AA

Program Control Number: 8754

The associate degree curriculum in black studies emphasizes the history, development, and role of black culture. Completion of the degree program prepares students to pursue a major leading to a baccalaureate degree.

Learning Outcome(s):

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

1. Apply a multi-disciplinary approach to the study of African Americans.
2. Analyze and evaluate the social, cultural, and political concepts central to the experiences of African Americans.
3. Assess the historical, literary, and artistic contributions of African Americans to American society and culture.
4. Compare and contrast the various approaches and methodologies employed to study the experiences of African Americans.
5. Analyze the concepts of economic empowerment and self-determination in relation to the African American community.
6. Analyze the impact of public policy on the African American family, past and present.

Required Core Courses:		**Units:**	**18**
BLST 101	Introduction to African American Studies	3	
ETHN 101	Introduction to Ethnic Studies	3	
–OR–			
ETHN 101H	Honors Introduction to Ethnic Studies	3	
HIST 123	African American History to 1865	3	
HIST 146	African American History from 1863 to the Present	3	
MUS 103	Jazz in America	3	
ENGL 245	The Image of African Americans in Literature and Films	3	
		Total:	**18**

BUSINESS

Business Administration Degree: AA

Program code: SAC.BUS.AA

Program Control Number: 10565

The associate degree curriculum in business administration enables students to move into a curriculum at a four-year institution leading to a baccalaureate degree. Career opportunities exist in many areas of business administration such as accounting, financial planning and analysis, financial service specialties, management, marketing and sales, production and logistics, and systems and technology development.

Learning Outcome(s):

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

1. Create clear, concise, well organized written business documents such as memos, reports, and executive summaries including financial information that can be used in an effective manner to communicate
2. Possess adequate technical knowledge to create financial information to be used in the accounting and related business environment.
3. Transfer to a 4 year university as a business administration major.

Required Core Courses:		**Units:**	**23**
ACCT 101	Financial Accounting	4	
ACCT 102	Managerial Accounting	4	
ECON 120	Principles/Macro		
ECON 121	Principles/Micro		
BUS 150	Introduction to Information Systems and Applications	3	
BUS 222	Business Writing	3	
BUS 101	Business Law	3	
–OR–			
BUS 105	Legal Environment of Business	3	
Select ONE course from the following electives (see note):**		**Units:**	**3-4**
BUS 100	Fundamentals of Business	3	
BUS 120	Principles of Management	3	
BUS 125	Introduction to International Business	3	
BUS 140	Principles of Finance	3	
MKTG 113	Principles of Marketing	3	
MGMT 120	Principles of Management	3	
MATH 150	Calculus for Biological, Management and Social Sciences	4	
		Total:	**26-27**

Business Administration for Transfer Degree: AS-T

Program code: SAC.BUS.AST

Program Control Number: 31983

The Associate in Science in Business Administration for Transfer (AS-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Business Administration. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AS-T degree also provides guaranteed admission with junior status to the CSU system although does not guarantee acceptance to a particular campus. See the SAC catalog for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees. Upon completion of the AS-T degree in Business Administration, students will have a general understanding of business fundamentals, including the areas of accounting, economics, and computer information systems. In addition, they will have an understanding of the legal environment of business, and will have a sufficient understanding of mathematical concepts to enable them to successfully pursue a business degree at a four-year institution. The AS-T degree in Business Administration is appropriate for students whose vocational plans include careers in business fields such as accounting, computer information systems, finance, management, marketing, or other business fields.

Learning Outcome(s):

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

1. Students will create clear, concise, well organized written business documents such as memos, reports, and executive summaries including financial information that can be used in an effective manner to communicate.
2. Students will possess adequate technical knowledge to create financial information to be used in the accounting and related business environment.
3. Students will be able to transfer to a California State University as a business administration major.

Required Core Courses:		**Units:**	
ACCT 101	Financial Accounting	4	
ACCT 102	Managerial Accounting	4	
ECON 120	Principles/Macro	3	
ECON 121	Principles/Micro	3	
BUS 101	Business Law	3	
–OR–			
BUS 105	Legal Environment of Business	3	
–OR–			
LAW 105	The Legal Environment of Business	3	
List A: Select one of the following courses:		**Units:**	**4-5**
MATH 145	Finite Mathematics	4	
MATH 150	Calculus for Biological, Management and Social Sciences	5	
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
PSYC 210	Statistics for the Behavioral Sciences	4	
List B: Select two courses from the list below or from any course from List A that has not already been used.		**Units:**	**6**
BUS 150	Introduction to Information Systems and Applications	3	
–OR–			
CMPR 100	The Computer and Society	3	
BUS 100	Fundamentals of Business	3	
–OR–			
BUS 222	Business Writing	3	
		Total:	**27-28**

BUSINESS APPLICATIONS

Business Applications and Technology Degree: AS

Program code: SAC.BA.AS

Program Control Number: 04193

The Business Applications and Technology Degree program provides professional training for employment as administrative office professionals. This program prepares students for Microsoft Office Specialist certification exams. Students will develop technical skills in using technology and applications for business projects based on current standards.

Learning Outcome(s):

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

1. Demonstrate a professional business image and employment readiness skills, including job search, resume writing, and interview skills.
2. Demonstrate business skills using current standards and technology, including leadership skills, customer service, business ethics, decision-making skills, meetings, and time management.
3. Demonstrate proficiency in written and verbal communication skills appropriate for business situations.
4. Demonstrate technology skills using Microsoft Office Word, Excel, PowerPoint, and Outlook for professional business documents and projects.
5. Understand the applications of math in business.
6. Demonstrate technology skills using Adobe Acrobat Pro application to create, edit, merge, and organize PDF documents for business.

Required Core Courses:		**Units:**	**23**
BA 035	Computer Fundamentals	1.5	
BA 147	Introduction to Windows	1.5	
BA 110	Computer Keyboarding Skills	0.5	
BA 115	Computer Keyboarding Speed and Accuracy Development	0.5	
BA 179	Introduction to Microsoft Office	3	
BA 126	Microsoft Outlook	2	
BA 163	Adobe Acrobat	3	
BA 018	Office Procedures	3	
BA 017	Business Writing Skills	3	
BA 182	Document Sharing and Collaboration Using the Cloud and Google Apps	2	
BUS 080	Business Mathematics	3	
Select one of the following courses:		**Units:**	**2-3**
BA 160	Microsoft Publisher	2	
BA 189	Advanced Microsoft Excel	2	
CMPR 167	Microsoft Access	3	
BA 164	Adobe Photoshop	3	
BA 166	Adobe Illustrator	3	
BA 169	Adobe Dreamweaver	3	
BA 170	Adobe InDesign	3	
ACCT 035	QuickBooks I	2	
BA 155	WordPress	2	
		Total:	**25-26**

Digital Publishing Degree: AA

Program code: SAC.BADP.AA

Program Control Number: 08708

The Digital Publishing program is designed to professionally train students in all aspects of designing and publishing print and web business projects based on current business industry standards and technology. Instruction includes digital graphics, web design, page layout, typography, export file formats, proper file setup, integration of software tools, and professional design guidelines. This program prepares students for Adobe Certified Associate (ACA) certification exams including Photoshop, Illustrator, Dreamweaver, InDesign, Animate, After Effects, and Premiere Pro.

Learning Outcome(s):

1. Students will be trained in all aspects of designing and publishing print, web, and social media business projects based on current business standards and technology.
2. Students will demonstrate knowledge and technical skills in using Adobe applications including Photoshop, Illustrator, Dreamweaver, InDesign, Animate, Premiere Pro, Acrobat Pro, and After Effects to integrate design principles that produce professional business projects.
3. Students will be prepared to take the Adobe Certified Associate (ACA) certification exams which include Photoshop, Illustrator, Dreamweaver, InDesign, Animate, After Effects, and Premiere Pro.

Required Core Courses:		**Units:**	**21.5**
BA 035	Computer Fundamentals	1.5	
BA 115	Computer Keyboarding Speed and Accuracy Development	0.5	
BA 147	Introduction to Windows	1.5	
BA 179	Introduction to Microsoft Office	3	
BA 164	Adobe Photoshop	3	
BA 166	Adobe Illustrator	3	
BA 169	Adobe Dreamweaver	3	
BA 170	Adobe InDesign	3	
BA 163	Adobe Acrobat	3	

Select three courses from the following elective courses:		**Units:**	**4.5-9**
BA 171	Adobe Premiere Pro	3	
BA 172	Adobe After Effects	3	
BA 173	Adobe Animate	3	
BA 155	WordPress	2	
BA 160	Microsoft Publisher	2	
BA 181	Everyone Can Code with Apple	2	
BA 182	Document Sharing and Collaboration Using the Cloud and Google Apps	2	
BA 153	Social Media Apps for Employment and Business	1.5	
BA 154	Search Engine Optimization and Web Statistics Apps for Business	1.5	
BA 158	Drones for Business	1.5	
	Total:	**26-30.5**	

Microsoft Office Professional Degree: AA

Program code: SAC.BAMSO.AA

Program Control Number: 08709

The Microsoft Office Professional program provides technical skills training in Microsoft Office applications based on current business standards to enhance business projects, improve business communication, and increase productivity. This program prepares students for Microsoft Office Specialist certification exams including Word, Excel, PowerPoint, Outlook, and Access.

Learning Outcome(s):

1. Students will demonstrate mastery in using Microsoft Office applications for business projects.
2. Students will be prepared to take several Microsoft Office Specialist (MOS) industry certification exams.
3. Students will develop business technology skills using current standards to enhance professional business projects, improve communications, and increase productivity.

Required Core Courses:		**Units:**	**22**
BA 035	Computer Fundamentals	1.5	
BA 147	Introduction to Windows	1.5	
BA 110	Computer Keyboarding Skills	0.5	
BA 115	Computer Keyboarding Speed and Accuracy Development	0.5	
BA 125	Microsoft Word	2	
BA 190	Microsoft PowerPoint	2	
BA 126	Microsoft Outlook	2	
BA 188	Microsoft Excel	2	
BA 189	Advanced Microsoft Excel	2	
CMPR 167	Microsoft Access	3	
BA 160	Microsoft Publisher	2	
BA 163	Adobe Acrobat	3	
	Total:	**22**	

Office Management Degree: AA

Program code: SAC.BAOM.AA

Program Control Number: 04189

The Office Management program is designed to prepare a student for employment and career advancement in a business office as an administrative professional. Course content includes business technology and software application training, administrative office management, office procedures, job search and advancement, professional image, leadership skills, business writing and verbal communication skills, business math, and corporate skills based on current business standards. This program prepares students for Microsoft Office Specialist certification exams including Word, Excel, PowerPoint, and Outlook.

Learning Outcome(s):

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

1. Demonstrate a professional business image and determine what ethical behavior means in an office situation and ways for dealing ethically with various situations.
2. Understand employer expectations and employer/employee responsibilities in today's workforce.
3. Understand the importance of leadership skills, setting goals, organizational skills, and time management.
4. Demonstrate proficiency in written and verbal communication skills appropriate for business situations
5. Demonstrate technology skills using Microsoft Office Word, Excel, PowerPoint and Outlook for professional business documents and projects.
6. Understand the applications of math in business, financial management, labor laws, and payroll practices.

Required Core Courses:		**Units:**	**17**
BA 017	Business Writing Skills	3	
BA 018	Office Technology & Professional Skills	3	
BUS 080	Business Mathematics	3	
BA 125	Microsoft Word	2	
BA 126	Microsoft Outlook	2	
BA 188	Microsoft Excel	2	
BA 190	Microsoft PowerPoint	2	
Select one of the following courses:		**Units:**	**2-3**
BA 189	Advanced Microsoft Excel	2	
CMPR 167	Microsoft Access	3	
ACCT 035	QuickBooks I	2	
BA 163	Adobe Acrobat	3	
		Total	**19-20**

Business Applications and Technology: Certificate of Achievement *(Transcripted)*

Program code: SAC.BAT.CA

Program Control Number: 21751

The Business Applications and Technology Degree program provides professional training for employment as administrative office professionals. This program prepares students for Microsoft Office Specialist certification exams in Word, Excel, PowerPoint, and Outlook. Students will develop technical skills in using technology and applications for business projects based on current standards.

Learning Outcome(s):

1. Students will develop and improve professional business skills using current standards and technology including job search and advancement, employment readiness, leadership skills, customer service, and effective written and verbal communication.

Required Core Courses:		**Units:**	**20**
BA 035	Computer Fundamentals	1.5	
BA 147	Introduction to Windows	1.5	
BA 110	Computer Keyboarding Skills	0.5	
BA 115	Computer Keyboarding Speed and Accuracy Development	0.5	
BA 179	Introduction to Microsoft Office	3	
BA 126	Microsoft Outlook	2	
BA 163	Adobe Acrobat	3	
BA 017	Business Writing Skills	3	
BA 018	Office Technology & Professional Skills	3	
BA 182	Document Sharing and Collaboration using the Cloud and Google Apps	2	
		Total:	**20**

Digital Publishing: Certificate of Achievement *(Transcripted)*

Program code: SAC.BADP.CA

Program Control Number: 21755

The Digital Publishing program is designed to professionally train students in all aspects of designing and publishing print, web, and social media business projects based on current business industry standards and technology. Instruction includes digital graphics, web design, page layout, typography, export file formats, proper file setup, integration of software tools, and professional design guidelines. This program prepares students for Adobe Certified Associate (ACA) certification exams including Photoshop, Illustrator, Dreamweaver, InDesign, Animate, After Effects, and Premiere Pro.

Learning Outcome(s):

1. Students will be trained in all aspects of designing and publishing print, web and social media business projects based on current business standards and technology.
2. Students will demonstrate knowledge and technical skills in using Adobe applications including Photoshop, Illustrator, Dreamweaver, InDesign, Animate, Premiere Pro, Acrobat Pro, and After Effects to integrate design principles that produce professional business projects.
3. Students will be prepared to take the Adobe Certified Associate (ACA) certification exams which include Photoshop, Illustrator, Dreamweaver, InDesign, Animate, After Effects, and Premiere Pro.

Required Core Courses:		**Units:**	**15**
BA 163	Adobe Acrobat	3	
BA 164	Adobe Photoshop	3	
BA 166	Adobe Illustrator	3	
BA 169	Adobe Dreamweaver	3	
BA 170	Adobe InDesign	3	
Select two courses from the following elective courses:		**Units:**	**3-6**
BA 155	WordPress	2	
BA 160	Microsoft Publisher	2	
BA 173	Adobe Animate	3	
BA 171	Adobe Premiere Pro	3	
BA 172	Adobe After Effects	3	
BA 181	Everyone Can Code with Apple	2	
BA 182	Document Sharing and Collaboration Using the Cloud and Google Apps	2	
BA 153	Social Media Apps for Employment and Business	1.5	
BA 154	Search Engine Optimization and Web Statistics Apps for Business	1.5	
BA 158	Drones for Business	1.5	
		Total:	**18-21**

Microsoft Office Professional: Certificate of Achievement *(Transcripted)*

Program code: SAC.BAMSO.CA

Program Control Number: 21752

The Microsoft Office Professional program provides technical skills training in Microsoft Office applications based on current business standards to enhance professional business projects, improve business communication, and increase productivity. This program prepares students for Microsoft Office Specialist certification exams including Word, Excel, PowerPoint, and Outlook.

Learning Outcome(s):

1. Students will demonstrate mastery in using Microsoft Office applications for business projects.
2. Students will be prepared to take several Microsoft Office Specialist (MOS) industry certification exams.
3. Students will develop business technology skills using current standards to enhance professional business projects, improve communications, and increase productivity.

Required Core Courses:		Units:	15
BA 035	Computer Fundamentals	1.5	
BA 147	Introduction to Windows	1.5	
BA 110	Computer Keyboarding Skills	0.5	
BA 115	Computer Keyboarding Speed and Accuracy Development	0.5	
BA 125	Microsoft Word	2	
BA 190	Microsoft PowerPoint	2	
BA 126	Microsoft Outlook	2	
BA 188	Microsoft Excel	2	
BA 163	Adobe Acrobat	3	
		Total:	**15**

Adobe Applications for Business: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.BAAB.CERT

The Adobe Applications for Business Certificate is designed to train students to use Adobe Photoshop, Illustrator, InDesign, and Dreamweaver software applications effectively and efficiently. Students will to develop business projects for print and the web using current business industry standards. Instruction includes beginning to advanced level software skills including proper use of tools, panels, and other software features required for image editing, page layout, typography, export file formats, integration of Adobe software, and proper file setup.

Learning Outcome(s):

1. Students will become proficient using the full capabilities of using the four core Adobe software applications required for the development and execution of business projects for print and web, integrating project files between Adobe applications and with other software.

Major requirements for the certificate:		Units:	12
BA 164	Adobe Photoshop	3	
BA 169	Adobe Dreamweaver	3	
BA 170	Adobe InDesign	3	
ART 195	Introduction to Digital Media Arts	3	
		Total:	**12**

Adobe Web Projects for Business: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.BAAW.CERT

Adobe Web Projects for Business Certificate professionally trains students to use Adobe software needed for business web projects. Students will learn proper software usage, file setup, terminology, search engine optimization, online marketing techniques, and guidelines based on current business standards. Multimedia will be integrated using Adobe software. This program prepares students for Adobe Certified Associate certification exams for Photoshop, Dreamweaver, and Animate.

Learning Outcome(s):

1. Students will become proficient using Adobe software to produce professional business communications for web using current business standards and guidelines including proper file setup and terminology. Students will learn the fundamentals of working as a freelance contractor for multiple customers including business startup fundamentals, marketing to obtain customers and accounting.

Required Core Courses:		Units:	
BA 164	Adobe Photoshop	3	
BA 169	Adobe Dreamweaver	3	
BA 173	Adobe Animate	3	
		Total:	**9**

Computer Fundamentals for Business: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.CFB.CERT

The Computer Fundamentals for Business Certificate program provides professional training in using common business applications and technology using current business standards, terminology, and techniques. Software application training in Windows operating system and Microsoft Office applications and prepares students for Microsoft Office Specialist certification exams in Word, Excel, and PowerPoint.

Learning Outcome(s):

1. Students will develop fundamental skills in using Windows operating system.
2. Students will develop skills in managing files and folders using File Explorer.
3. Students will develop skills in using Microsoft Office applications to create documents, spreadsheets, and presentations for business projects.

Required Core Courses:		Units:	6-9
BA 035	Computer Fundamentals	1.5	
BA 147	Introduction to Windows	1.5	
BA 179	Introduction to Microsoft Office	3	
–OR–			
BA 125	Microsoft Word	2	
–AND–			
BA 190	Microsoft PowerPoint	2	
–AND–			
BA 188	Microsoft Excel	2	
		Total:	**6-9**

Digital Graphic Design for Business: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.DADG.CERT

The purpose of the Digital Graphic Design for Business Certificate of Proficiency is to provide hands-on skill development and proper software expertise with business projects (logo design, brochures, business cards, advertisement, multi-page layout, and customization PDF documents) required to obtain employment as a Graphic Designer or related position as a free lance contractor or employee for any business. Students will learn proper software usage, file setup, terminology and guidelines based on current business standards.

Learning Outcome(s):

1. Students will become proficient using Adobe Graphics and Page Layout software to produce professional business communications for print using current business standards and guidelines including proper file setup and terminology
2. Students will learn the fundamentals of working as a free lance contractor for multiple customers including business startup fundamentals, marketing to obtain customers and accounting

Required Core Courses::		Units:	
BA 163	Adobe Acrobat	3	
BA 166	Adobe Illustrator	3	
BA 170	Adobe InDesign	3	
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1	
ENTR 121	People Skills for the Freelancer	1	
ENTR 122	Opportunities in Freelance Industries and Trades	1	
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1	
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1	
ENTR 125	Launch Your Freelance Business	1	
		Total:	**15**

Office Management: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.BAOM.CERT

The Office Management program is designed to prepare a student for employment and career advancement in a business office as an administrative professional. Course content includes business technology and software application training, administrative office management, office procedures, job search and advancement, professional image, leadership skills, business writing and verbal communication skills, business math, and corporate skills based on current business standards. This program prepares students for Microsoft Office Specialist certification exams including Word, Excel, PowerPoint, and Outlook.

Learning Outcome(s):

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

1. Students will demonstrate knowledge and skills as an administrative professional in business writing, math, communications, leadership, and career advancement.
2. Students will demonstrate technology skills using Microsoft Office applications for business projects.
3. Students will be prepared to take several Microsoft Office Specialist (MOS) industry certification exams.

Required Core Courses:		Units:
BA017	Business Writing Skills	3
BA018	Office Technology & Professional Skills	3
BUS080	Business Mathematics	3
BA125	Microsoft Word	2
BA190	Microsoft PowerPoint	2
BA126	Microsoft Outlook	2
BA188	Microsoft Excel	2
	Total:	**17**

Spanish / English Interpretation And Translation: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.BASE.CERT

The Spanish/English Interpretation & Translation introductory certificate prepares students for employment as trained bilingual English/Spanish interpreters to provide bilingual interpretation services in career fields that employ bilingual skills such as business, legal, educational, and medical professions. Written translation and oral interpretation skills will be utilized and developed in both English and Spanish. Fluency in Spanish and English is recommended.

Learning Outcome(s):

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

1. Students will demonstrate skill and competency in providing services as a certified Spanish/English bilingual interpreter for a variety of business, legal, educational and medical translations.
2. Students will translate spoken statements from Spanish to English by reproducing statements, questions and instructions.

Required Core Courses:		Units:	12
BA051	Introduction to Spanish Bilingual Interpreting	3	
BA056	Business Interpretation and Translation-Spanish/English	3	
BA057	Medical Interpretation and Translation-Spanish/English	3	
BA058 or	Legal Interpretation and Translation-Spanish/English	3	
LAW058	Legal Interpreting and Translation Spanish/English	3	

Select one of the following courses: (3 - 5 Required)

BA017	Business Writing Skills	3
ENGL101	Freshman Composition	4
SPAN101	Elementary Spanish I	5
SPAN102	Elementary Spanish II	5

Select one of the following elective courses: Credit Hours: (1 - 4 Required)

BA179	Introduction to Microsoft Office	3
BA163	Adobe Acrobat	3
BUS103	Cooperative Work Experience-Occupational	1 - 4
MA051A	Beginning Medical Terminology	3
LAW100	Introduction to Legal Studies	3
PARA100	The Paralegal Profession	3
SPAN195A	Advanced Conversational Spanish	3
LAW299	Cooperative Work Experience Education - Occupational	1 - 4
PARA105	Cooperative Work Experience Education - Occupational	1 - 4
	Total:	**16-21**

CHEMISTRY

Chemistry Degree: AS

Program code: SAC.CHEM.AS

Program Control Number: 04245

The associate degree curriculum in chemistry provides basic courses for a wide variety of occupations or prepares the student to enter a curriculum in a four-year institution leading to a baccalaureate degree. The major fields of chemistry are inorganic and organic chemistry, biochemistry, and chemical engineering. These fields provide career opportunities in industry, research, and teaching, and also entry into graduate or professional programs such as medicine, pharmacy and other related health fields. Please see a counselor for specific course requirements for your transfer university.

Learning Outcome(s):

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

1. Students will develop proficiency and knowledge of chemistry concepts, laboratory techniques and experimental data collection/analysis.

Required Core Courses:		Units:	24
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
CHEM 229	General Chemistry and Qualitative Analysis	5	
CHEM 249	Organic Chemistry I	5	
CHEM 259	Organic Chemistry II	5	
MATH 180	Single Variable Calculus I	4	
	Total:		**24**

Chemistry Degree for Transfer: AS-T

Program code: SAC.CHEM.AST

Program Control Number: 35021

The Associate in Science in Chemistry for Transfer (AS-T in Chemistry) prepares students to transfer into the CSU system leading to a Baccalaureate degree in Chemistry. Students with this degree also have a foundation in science to pursue other science-related fields or engineering. Please consult a counselor regarding specific course requirements for your transfer institution. Successful completion of the AS-T in Chemistry degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to a local CSU in a similar major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.**

Students earning a Chemistry AS-T must select IGETC for STEM to complete the general education requirement.*

Upon completion of the AS-T in Chemistry degree, students will gain a foundation in general and organic chemistry which is necessary in many fields of science and engineering.

Learning Outcome(s):

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

1. Students will develop proficiency and knowledge of chemistry concepts, laboratory techniques and experimental data collection/analysis.

Required Core Courses:		**Units:**	**36**
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
CHEM 229	General Chemistry and Qualitative Analysis	5	
CHEM 249	Organic Chemistry I	5	
CHEM 259	Organic Chemistry II	5	
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
PHYS 217	Engineering Physics I	4	
PHYS 227	Engineering Physics II	4	
		Total:	**36**

*Note: Only IGETC for STEM will be accepted toward completion of the general education portion of this degree. CSU-GE for STEM, CSU-GE, and IGETC will not be accepted. (For those planning to meet the CSU admission requirement an oral communication course, IGETC area 1C, must be included.)

CHICANO STUDIES

Chicano Studies Degree: AA

Program code: SAC.CHST.AA

Program Control Number: 8755

The associate degree curriculum in Chicano studies emphasizes the history, development, and role of Chicano culture. Completion of the degree program prepares students to pursue a major leading to a baccalaureate degree.

Learning Outcome(s):

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

1. Demonstrate knowledge of the history and contemporary developments in the field of Chicana/Chicano Studies.
2. Synthesize the historical issues of the Chicana/Chicano community with present day issues in order to correlate shortcomings and successes.
3. Learn key roles the Chicana/Chicano community has played in creating and shaping the United States from inception to present day.
4. Unpack, dissect, comprehend, and apply the differences between cultural identifiers (i.e. Chicana/Chicano, Mexican American, Hispanic, etcetera).
5. Develop and communicate clear, well-organized research through multiple delivery methods for diverse audiences
6. Engage in social justice practices.

Required Core Courses:		**Units:**	**18**
ANTH 105	Ancient Mesoamerican Civilization	3	
-OR-			
HIST 105	Ancient Mesoamerican Civilization	3	
ART 104	Mexican and Chicano Art History	3	
CHST 101	Introduction to Chicana/o Studies	3	
HIST 124	Mexican American History in the United States	3	
–OR–			
HIST 124H	Honors Mexican American History in the United States	3	
HIST 153	History of Mexico	3	
ETHN 101	Introdution to Ethnic Studies	3	
–OR–			
ETHN 101H	Honors Introduction to Ethnic Studies	3	
		Total:	**18**

CHILD DEVELOPMENT

Emphasis in Infant/Toddler Care and Development Degree: AA

Program code: SAC.CDIT.AA

Program Control Number: 04235

The Associate in Arts in Child Development - Infant/Toddler Teacher degree program provides students with a specialized focus on the unique strengths and needs of infants and toddlers. Students will study the comprehensive development of the young child, birth to three years, with a focus on understanding current brain research and best caregiving practices. The practicum component of the program will support the students as they transfer their learning to their work with young children. The program is available for early childhood educators, parents, administrators, and health care professionals.

In addition to the 36.5 units of Child Development coursework, students must also complete the general education requirements. This degree prepares students for transfer to a 4-year university to obtain a bachelors degree. Refer to the Graduation Requirements or the CSU-GE and IGETC patterns in this catalog for specific courses that meet the general education requirement. Contact Career Technical Education (CTE) counselors at SAC for additional assistance in planning your early childhood profession (714-564-6254).

Students who earn this degree should apply for the Early Childhood Infant/Toddler Teacher Certificate and the California Teacher's Permit. In order to qualify for the degree, certificate and permit, a student must also have work experience with young children (175 days of 3 hours per day within 4 years). See Child Development faculty members for assistance.

Learning Outcome(s):

1. Demonstrate a knowledge of early childhood curriculum, program practices, and the development of young children.

Required Core Courses:		**Units:**	**36.5**
CDEV 107	Child Growth and Development (DS1)	3	
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3	
CDEV 110	Child, Family, and Community (DS2)	3	
CDEV 111A	Principles and Practices of Teaching Young Children	3	
CDEV 111B	Introduction to Curriculum for Young Children	3	
CDEV 112	Health, Safety, and Nutrition for Children	3	
CDEV 116A	Infant/Toddler Growth and Development (DS4)	3	
CDEV 116B	Care and Education for Infants and Toddlers (DS3)	3	
CDEV 206	Curriculum and Intervention Strategies	3	
CDEV 221	Living and Teaching in a Diverse Society	3	
CDEV 297	Analyzing and Applying Teacher Strategies in the Classroom	3	
CDEV 298B	Practicum in Infant/Toddler Programs	3.5	
		Total:	**36.5**

Emphasis in Preschool Age Care and Development Degree: AA

Program code: SAC.CDPC.AA

Program Control Number: 08743

The Associate in Arts in Child Development - Emphasis in Preschool Care and Development provides students with knowledge about the comprehensive development of young children ages 3 to 5 years old. Students will focus on understanding developmentally appropriate practice, effective learning strategies, and how to create and implement a high quality classroom for young children. The practicum component of the program will support the students as they transfer their learning to their work with young children. The program is available for early childhood educators, parents, administrators, and health care professionals.

In addition to the 33.5 units of Child Development coursework, students must also complete the general education requirements. This degree prepares students for transfer to a 4-year university to obtain a bachelors degree. Refer to the Graduation Requirements or the CSU-GE and IGETC patterns in this catalog for specific courses which meet the general education requirement. Contact Career Technical Education (CTE) counselors at SAC for additional assistance in planning your early childhood profession (714-564-6254).

Students who earn this degree should apply for the Early Childhood Teacher Certificate and the California Teacher's Permit. In order to qualify for the degree, certificate and permit, a student must also have work experience with young children (175 days of 3 hours per day within 4 years). See Child Development faculty members for assistance.

Learning Outcome(s):

1. Demonstrate a knowledge of early childhood curriculum, program practices, and the development of young children.

Required Core Courses:		**Units:**	**33.5**
CDEV 107	Child Growth and Development (DS1)	3	
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3	
CDEV 110	Child, Family, and Community (DS2)	3	
CDEV 111A	Principles and Practices of Teaching Young Children	3	
CDEV 111B	Introduction to Curriculum for Young Children	3	
CDEV 112	Health, Safety, and Nutrition for Children	3	
CDEV 205	Introduction to Children with Special Needs	3	
CDEV 221	Living and Teaching in a Diverse Society	3	
CDEV 231	Developing Language and Literacy in Young Children	3	
CDEV 297	Analyzing and Applying Teacher Strategies in the Classroom	3	
CDEV 298A	Practicum in Early Childhood Programs	3.5	
		Total:	**33.5**

Emphasis in School-Age Care and Recreation Degree: AA

Program code: SAC.CDSA.AA

Program Control Number: 04250

The Associate in Arts in Child Development - Emphasis in School Age Care and Recreation is designed to prepare instructional and classroom master teachers to serve as paraprofessional members of the teaching team and/or teachers in school-age child care. Students are offered knowledge about the development of the school age child and the role of the adult in helping to integrate skills and aid classroom learning.

In addition to the Child Development coursework, students must also complete the general education requirements and complete work experience with young children (175 days of 3 hours per day within 4 years). See Child Development faculty members for assistance.

This degree prepares students for transfer to a 4-year university to obtain a bachelors degree. Students who earn this degree should apply for the Certificate of Achievement in School Age Care and Recreation and the California Teacher's Permit (see Child Development faculty members for assistance).

Learning Outcome(s):

1. Demonstrate a knowledge of early childhood curriculum, program practices, and the development of young children.

Required Core Courses:		**Units:**
32.5-35.5		
CDEV 107	Child Growth and Development (DS1)	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 111A	Principles and Practices of Teaching Young Children	3
CDEV 111B	Introduction to Curriculum for Young Children	3
EDUC 113	Tutoring Reading in Elementary Schools	1
CDEV 120A	Development of the School-Age Child (DS5)	3
CDEV 120B	School-Age Child Care and Recreation Activities (DS5)	3
CDEV 205	Introduction to Children with Special Needs	3
CDEV 221	Living and Teaching in a Diverse Society	3
CDEV 297	Analyzing and Applying Teacher Strategies in the Classroom	3
CDEV 298A	Practicum in Early Childhood Programs	3.5
CDEV 299	Cooperative Work Experience Education	1-4
	Total:	**32.5-35.5**

Early Childhood Education Degree for Transfer: AS-T

Program code: SAC.ECE.AST

Program Control Number: 32063

The Associate of Science in Early Childhood Education for Transfer (AS-T) prepares students to move into a curriculum at a four year institution leading to a baccalaureate degree in Child Development, Human Development, Early Childhood Education or Child and Adolescent Studies. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AS-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Child and Adolescent Studies major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Early Childhood Education, students will have general understanding of the main developmental theories as they pertain to the development, care, and education of young children. Additionally, students will have the capacity to evaluate and plan curriculum and environments for children based on observation of their physical, cognitive, emotional, social and creative characteristics.

The following is required for all AA-T or AS-T degrees:

- Minimum of 60 CSU-transferable semester units (SAC courses numbered 100 and above).
- Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
- Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major as detailed in the College Credit Instructional Programs section of the catalog. All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass " basis (title 5 § 55063).
- Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) (**see page 36** for more information); –OR– the Intersegmental General Education Transfer Curriculum (IGETC) pattern (**see page 38** for more information). Completion of Santa Ana College local general education requirements (Plan A) does not meet the requirement for AA-T and AS-T degrees.

Learning Outcome(s):

1. Demonstrate skill and knowledge in child observation, documentation, and effective assessment strategies that positively influence the development of children.

Required Core Courses:		**Units:**	**24.5**
CDEV 107	Child Growth and Development (DS1)	3	
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3	
CDEV 110	Child, Family, and Community (DS2)	3	
CDEV 111A	Principles and Practices of Teaching Young Children	3	
CDEV 111B	Introduction to Curriculum for Young Children	3	
CDEV 112	Health, Safety, and Nutrition for Children	3	
CDEV 221	Living and Teaching in a Diverse Society	3	
CDEV 298A	Practicum in Early Childhood Programs	3.5	
		Total:	**24.5**

Bilingual (English/Spanish) Preschool Associate Teacher: Certificate of Achievement *(Transcripted)*

Program code: SAC.CDBP.CA

Program Control Number: 32600

The Bilingual (English/Spanish) Preschool Associate Teacher Certificate is designed to prepare the native Spanish (English as a second language) speaker to be an associate teacher in a licensed preschool serving Spanish speaking families and children. The courses in this certificate are presented in English and Spanish, with the requirement to be concurrently enrolled in ESL or EMLS classes, encouraging mastery of both languages.

Students must complete the following in order to earn this certificate:

Coursework with a grade of C or better

Work experience of 150 days of 3 hours per day within 4 years (see Child Development faculty for information about this requirement)

EMLS 112 or English 061 or higher

Passing of Spanish AP test or Spanish 102

Learning Outcome(s):

1. Students will demonstrate a knowledge base of early childhood and development of young children 3-5 years old.

Required Core Courses:

CDEV 070	Early Childhood Education: Introductory Principles and Practices (DS3)	3
CDEV 107	Child Growth and Development (DS1)	3
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 111A	Principles and Practices of Teaching Young Children	3
CDEV 111B	Introduction to Curriculum for Young Children	3
	Total:	**18**

Early Childhood Teacher: Certificate of Achievement *(Transcripted)*

Program code: SAC.CDECT.CA

Program Control Number: 21793

This Early Childhood Teacher Certificate provides students with knowledge about the comprehensive development of young children ages 3 to 5 years old. Students will focus on understanding developmentally appropriate practice, effective learning strategies, and how to create and implement a high quality classroom for young children. The practicum component of the program will support the students as they transfer their learning to their work with young children. The program is available for early childhood educators, parents, administrators and health care professionals.

In order to earn the certificate, students must complete the following:

16 units of general education, specifically a class in each of the following areas: English, Science or Math, Social Science, and Humanities/Fine Arts.

Additional work experience with young children (175 days of 3 hours per day within 4 years).

These two requirements will also qualify the students to earn a California Teacher Permit, which is used in federal and state early childhood programs as well as licensing regulations for private and faith based programs.

In addition to the 33.5 units of Child Development coursework and 16 units of general education, students should consider completing the general education requirements for the AA Degree in Child Development with an Emphasis in Preschool-Age Care and Development.

Contact Career Technical Education (CTE) counselors at SAC for additional assistance in planning your early childhood profession (714-564-6254).

Learning Outcome(s):

1. Demonstrate skill and mastery of child development themes, theories, curriculum, and assessment strategies by applying knowledge and skills in a simulated/real preschool setting or scenarios.
2. Develop a portfolio of developmentally appropriate curriculum, programming, and assessment strategies for preschoolers in the cognitive, psychosocial, and biosocial domains.

Required Core Courses:

CDEV 107	**Child Growth and Development (DS1)**	**3**
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 111A	Principles and Practices of Teaching Young Children	3
CDEV 111B	Introduction to Curriculum for Young Children	3
CDEV 112	Health, Safety, and Nutrition for Children	3
CDEV 205	Introduction to Children with Special Needs	3
CDEV 221	Living and Teaching in a Diverse Society	3
CDEV 231	Developing Language and Literacy in Young Children	3
CDEV 297	Analyzing and Applying Teacher Strategies in the Classroom	3
CDEV 298A	Practicum in Early Childhood Programs	3.5
	Total:	**33.5**

Infant/Toddler Teacher: Certificate of Achievement

(Transcripted)

Program code: SAC.CDITT.CA

Program Control Number: 21794

The Certificate of Achievement in Child Development - Infant/Toddler Teacher provides students with a specialized focus on the unique strengths and needs of infants and toddlers. Students will study the comprehensive development of the young child, birth to three years, with a focus on understanding current brain research and best caregiving practices. The practicum component of the program will support the students as they transfer their learning to their work with young children. The program is available for early childhood educators, parents, administrators and health care professionals.

In addition to the 36.5 units of Child Development coursework and 16 units of general education, students should consider completing the general education requirements for the AA Degree in Child Development with an Emphasis in Preschool-Age Care and Development.

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

In order to earn the permit, students must complete the following:

16 units of general education, specifically a class in each of the following areas: English, Science or Math, Social Science, and Humanities/Fine Arts.

Additional work experience with young children (175 days of 3 hours per day within 4 years).

These two requirements will also qualify the students to earn a California Teacher Permit, which is used in federal and state early childhood programs as well as licensing regulations for private and faith based programs.

Contact Career Technical Education (CTE) counselors at SAC for additional assistance in planning your early childhood profession (714-564-6254).

A minimum grade of "C" in each course is required to earn this certificate and the Cali fornia permit.

Learning Outcome(s):

1. Demonstrate skill and mastery of child development theories and proficiency in application in a simulated/real infant/toddler setting or scenario.
2. Develop a portfolio of developmentally appropriate activities, programming, and assessment strategies for infants and toddlers in the cognitive, psychosocial, and biosocial domains.

Required Core Courses:		Units:
CDEV 107	Child Growth and Development (DS1)	3
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 112	Health, Safety, and Nutrition for Children	3
CDEV 111A	Principles and Practices of Teaching Young Children	3
CDEV 111B	Introduction to Curriculum for Young Children	3
CDEV 116A	Infant/Toddler Growth and Development (DS4)	3
CDEV 116B	Care and Education for Infants and Toddlers (DS3)	3
CDEV 205	Introduction to Children with Special Needs	3
CDEV 221	Living and Teaching in a Diverse Society	3
CDEV 297	Analyzing and Applying Teacher Strategies in the Classroom	3
CDEV 298B	Practicum in Infant/Toddler Programs	3.5
	Total:	**36.5**

School-Age Teacher: Certificate of Achievement

(Transcripted)

Program code: SAC.CDSAT.CA

Program Control Number: 21759

The School-Age Care and Recreation Teacher Certificate is designed to prepare school-age classroom aides to serve as paraprofessional members of the teaching team in school-age child care. Students are offered knowledge about the development of the school-age child and the role of the adult in helping to integrate skills and aid classroom learning.

In order to earn the certificate, students must complete the following:

16 units of general education, specifically a class in each of the following areas: English, Science or Math, Social Science, and Humanities/Fine Arts.

Additional work experience with young children (175 days of 3 hours per day, within 4 years).

These two requirements will also qualify the students to earn a California Teacher Permit, which is used in federal and state funded programs as well as licensing regulations for private and faith based programs.

Learning Outcome(s):

1. Demonstrate skill and mastery in applying school-age child development themes, theories, and concepts in real/simulated school-age settings or scenarios.
2. Develop a portfolio of developmentally appropriate school-age activities and programming including discipline strategies, health and safety, social interaction, parent communication, media influences and assessment strategies for the cognitive, psychosocial, and biosocial domains.

Required Core Courses:		Units:
CDEV 107	Child Growth and Development (DS1)	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 111A	Principles and Practices of Teaching Young Children	3
CDEV 111B	Introduction to Curriculum for Young Children	3
EDUC 113	Tutoring Reading in Elementary Schools	1
CDEV 120A	Development of the School-Age Child (DS5)	3
CDEV 120B	School-Age Child Care and Recreation Activities (DS5)	3
CDEV 205	Introduction to Children with Special Needs	3
CDEV 221	Living and Teaching in a Diverse Society	3
CDEV 297	Analyzing and Applying Teacher Strategies in the Classroom	3
CDEV 298A	Practicum in Early Childhood Programs	3.5
CDEV 299	Cooperative Work Experience Education	1-4
	Total:	**32.5-35.5**

Early Childhood Assistant Teacher: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.ECAT.CERT

This Early Childhood Assistant Teacher Certificate is the first step to building a career working with children and families. Introductory coursework will provide students with knowledge about the comprehensive development of young children. Students will have the opportunity to observe preschool children, as well as learn about the important resources that are available to children and families.

This certificate is available for early childhood educators, parents, administrators and health care professionals. In order to earn the certificate, students must complete the Steps for Success Orientation provided by the Department of Child Development and Education Studies and is offered in the 10th week of every fall and spring semester. Students will be provided with times and locations and will complete this orientation during their semester attending CDEV108: Observation and Assessment.

These courses and requirements will also qualify students to apply for the California Assistant Teacher Permit, which is used in federal and state early childhood programs as well as licensing regulations for private and faith based programs.

After completing this certificate, students should consider completing the general education requirements for the AA Degree in Child Development with an Emphasis in Preschool-Age Care and Development. Contact Career Technical Education (CTE) counselors at SAC for additional assistance in planning your early childhood profession (714-564-6254).

Learning Outcome(s):

1. Demonstrate skill and mastery of child development theories and proficiency in application in a simulated/real infant/toddler setting or scenario.
2. Develop a portfolio of developmentally appropriate activities, programming, and assessment strategies for infants and toddlers in the cognitive, psychosocial, and biosocial domains.

Required Core Courses:		**Units:**
CDEV 107	Child Growth and Development (DS1)	3
–AND–		
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3
–AND–		
CDEV 110	Child, Family, and Community (DS2)	3
	Total:	**9**

STEAM (Science, Technology, Engineering, Arts, Math) Certificate for Early Childhood Educators: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.STEAM.CERT

The purpose of the STEAM (Science, Technology, Engineering, Arts, Math) Certificate for Early Childhood Educators is to empower teachers to employ a project-based learning approach that crosses all of these disciplines in solving everyday problems. This approach aligns with Common Core Standards and has been shown to engage students and allow them to use both left and right- brained thinking in the same exercise. This certificate provides a strong researched-based curricular foundation with immediate practical classroom applications. Additionally, the STEAM certificate can be used towards earning professional growth hours for the child development permit.

Learning Outcome(s):

1. Students will demonstrate a knowledge basis of STEAM (Science, Technology, Engineering, Art, and Mathematics) within the early childhood.
2. Students will understand and be conversant about the current education as well as be able to analyze their application and importance for teaching today.

Required Core Courses:		**Units:**
CDEV 214	Creative Art Experiences for Children	1.5
CDEV 229	Brain Development and Learning	2
CDEV 232	Math and Science Methods for Early Learning Environments	2
CDEV 210	Creative Music Experiences for Young Children	2
CDEV 231	Developing Language and Literacy in Young Children	3
CDEV 200	Introduction to Technology in Early Childhood Education	2
	Total:	**12.5**

Support for Students with Special Needs: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.CDSSS.CERT

The Support for Students with Special Needs Certificate is designed to prepare students with knowledge, skills, and resources to address the diverse needs of children and adolescents with special needs. Students are offered intervention strategies, adaptive curriculum, and tools to both support and empower educators and families in both natural and/or inclusive education settings.

Learning Outcome(s):

1. Demonstrate analysis and knowledge of the personal and team roles and responsibilities of the Special Education provider in the public school which includes diagnosis and implementation strategies for students with special needs.

Required Core Courses:		**Units:**	**9**
CDEV 205	Introduction to Children with Special Needs	3	
–AND–			
CDEV 206	Curriculum and Intervention Strategies	3	
–AND–			
CDEV 207	Supporting and Empowering Families of Children with Special Needs	3	
	Total:		**9**

COMMUNICATION STUDIES

Communication Studies Degree: AA

Program code: SAC.CMST.AA

Program Control Number: 04239

The associate degree curriculum in communication studies provides training for communicating and dealing with people. Completion of the associate of arts degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree, and then into careers in the field of business, industry, government, or education in such areas as teaching, public speaking, announcing, and public relations.

Learning Outcome(s):

1. Recognize and explain characteristics of competent communication.
2. Construct messages that demonstrate communication competency.

Required Core Courses:		**Units:**	
CMST 101	Introduction to Interpersonal Communication	3	
–OR–			
CMST 101H	Honors Introduction to Interpersonal Communication	3	
CMST 102	Public Speaking	3	
CMST 103	Introduction to Intercultural Communication	3	
–OR–			
CMST 103H	Honors Introduction to Intercultural Communication	3	
CMST 140	Argumentation and Debate	3	
CMST 145	Group Dynamics	3	
One additional elective from the following:		**Units:**	**3**
CMST 151	Voice and Diction for Effective Communication	3	
CMST 152	Oral Interpretation	3	
CMST 170	Introduction to Phonetics	3	
CMST 206	Gender Communication	3	
–OR–			
CMST 206H	Honors Gender Communication	3	
	Total:		**18**

Communication Studies for Transfer Degree: AA-T

Program code: SAC.CMST.AAT

Program Control Number: 30663

The Associate in Arts in Communication Studies for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in communication studies. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, although does not guarantee admission to a specific major or campus. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Communication Studies students will have a general understanding of the main communication studies theories as they pertain to interpersonal communication, public speaking, interpersonal communication, and argumentation and debate. Students will have the capacity to write and think in a critically analytical way about issues pertaining to the process of human communication.

Learning Outcome(s):

1. Recognize and explain characteristics of competent communication.
2. Employ appropriate listening responses.
3. Construct messages that demonstrate communication competency.

Required Core Courses:		**Units:**	**3**
CMST 102	Public Speaking	3	
List A Electives Select two courses: 6 units		**Units:**	**6**
CMST 140	Argumentation and Debate	3	
CMST 101	Introduction to Interpersonal Communication	3	
––OR––			
CMST 101H	Honors Introduction to Interpersonal Communication	3	
CMST 145	Group Dynamics	3	
List B Electives Select two courses: 6 units Any List A course not used above.		**Units:**	**6**
CMST 103	Introduction to Intercultural Communication	3	
––OR––			
CMST 103H	Honors Introduction to Intercultural Communication	3	
CMST 151	Voice and Diction for Effective Communication	3	
CMST 152	Oral Interpretation	3	
CMSD 105	Mass Media and Society	3	
––OR––			
CMSD 105H	Honors Mass Media and Society	3	

List C Electives. Select one course: 3 Units Any List A or List B course not used above.		**Units:**	
ANTH 100	Introduction to Cultural Anthropology	3	
––OR––			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
SOC 100	Introduction to Sociology	3	
–OR–			
SOC 100H	Honors Introduction to Sociology	3	
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
CMST 158	Readers Theatre	3	
CMST 170	Introduction to Phonetics	3	
CMST 206	Gender Communication	3	
CMST 206H	Honors Gender Communication	3	
		Total:	**18**

COMMUNICATIONS & MEDIA STUDIES

B-Broadcast Communications and Media Studies Emphasis Degree: AA

Program code: SAC.CMSDB.AA

Program Control Number: 16974

The program in Communications and Media Studies offers students a unique blend of theory and practice. The program provides critical and cultural analysis of media and communications in conjunction with a hands-on production sequence in print, digital, and Web-based multimedia, leading to potential entry-level positions in multimedia and communications fields.

Learning Outcome(s):

1. Students will apply the basic principles of journalism such as accuracy, fairness, and public service.
2. Students will demonstrate an understanding of the history and role of professionals and institutions in shaping communications and be able to discuss the legal and ethical underpinnings of U.S. Mass Media.
3. Students will research news stories using a variety of sources and evaluate the accuracy of information sources.

Required Core Courses:		**Units:**	**24**
CMSD 105 –OR–	Mass Media and Society	3	
CMSD 105H	Honors Mass Media and Society	3	
CMSD 121	Introduction to Reporting and Newswriting	3	
CMST 101	Introduction to Interpersonal Communication	3	
–OR–			
CMST 101H	Honors Introduction to Interpersonal Communication	3	
CMST 151	Voice and Diction for Effective Communication	3	
TELV 100	Introduction to Electronic Media: TV, Radio, Film, and the Internet	3	
TELV 110	Introduction to Television Production	3	
TELV 130	Principles of Broadcast News	3	
TELV 142	Acting for the Camera	3	

Plus 11 units from the following courses		Units:	0-11
CMSD 123A	News Media Production	4	
CMSD 123B	Intermediate News Media Production	4	
CMSD 222	Writing Across Media	3	
CMSD 298B	Intermediate Designing for Print and Digital Media	3	
CMST 140	Argumentation and Debate	3	
CMST 152	Oral Interpretation	3	
ENGL 241	Survey of American Literature 1600-1865	3	
ENGL 242	Survey of American Literature, 1865-Present	3	
ENGL 243	The Modern American Novel	3	
HIST 118	Social and Cultural History of the United States	3	
HIST 120	The United States to 1865	3	
–OR–			
HIST 120H	Honors The United States to 1865	3	
HIST 121	The United States since 1865	3	
–OR–			
HIST 121H	Honors The United States since 1865	3	
PHIL 110	Critical Thinking	4	
–OR–			
PHIL 110H	Honors Critical Thinking	4	
POLT 101	Introduction to American Governments	3	
–OR–			
POLT 101H	Honors Introduction to American Governments	3	
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
TELV 009A	TV/Video Communications Laboratory	0.5	
TELV 101	TV and Society: A Visual History	3	
TELV 112	Introduction to Video Editing and Postproduction	3	
TELV 120	Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3	
TELV 121	Intermediate Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media	3	
TELV 131	Beginning Broadcast News Workshop	2	
TELV 150	Producing and Directing for Television	3	
TELV 260	Lighting Fundamentals	3	
THEA 110	Acting Fundamentals	3	
		Total:	**35-36**

Communications and Media Studies Degree: AA

Program code: SAC.CMSDA.AA

Program Control Number: 04194

The Associate in Arts in Communications and Media Studies introduces students to the theory and practice of media. The program provides critical and cultural analysis of media and communications while affording students comprehensive study in reporting, writing, visual reporting, photojournalism, design, and editing across media platforms. Students build media production skills while working at the colleges nationally acclaimed publications el Don and **eldonnews.org**, where they learn to work in a data-rich environment to find and tell important stories. Completion of the degree prepares students to move into a four-year program leading to a baccalaureate degree and potential careers in digital media, multimedia and social media reporting, editing, photography, design, public relations, advertising, writing, and production, teaching, and communication research. Please consult a SAC counselor for information about course requirements for particular four-year institutions.

Learning Outcome(s):

1. Apply the basic principles of journalism such as accuracy, fairness, and public service.
2. Demonstrate an understanding of the history and role of professionals and institutions in shaping communications and media.
3. Discuss the legal and ethical underpinnings of U.S. Mass Media.
4. Research news and other media stories using a variety of sources and evaluate the accuracy of information sources.

Required Core Courses:		Units:	22
CMSD 103	Introduction to Visual Communications	3	
CMSD 105	Mass Media and Society	3	
CMSD 111	Media, Race and Gender	3	
CMSD 121	Introduction to Reporting and Newswriting	3	
CMSD 123A	News Media Production	4	
CMSD 222	Writing Across Media	3	
CMSD 298A	Designing for Print and Digital Media	3	
		Total:	**22**

Journalism Degree for Transfer: AA-T

Program code: SAC.CMSD.AAT

Program Control Number: 32148

The Associate in Arts in Journalism for Transfer (AA-T in Journalism) prepares students to move into the CSU system leading to a baccalaureate degree in Journalism, and then into careers in daily reporting, media editing, writing, Web-based multimedia reporting, visual reporting, photography, print and digital design, public relations, advertising, radio, digital media, and television writing and production. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Arts in Journalism for Transfer (AA-T in Journalism) degree also provides guaranteed admission with junior status to the CSU system (admission not guaranteed to a specific major or campus), along with priority admission consideration to a local CSU. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the Associate of Arts in Journalism for Transfer (AA-T in Journalism), students will be able to define and execute newsgathering strategies; write articles under deadline; edit their own and others' articles for proper spelling, grammar, and AP style; define relevant news content; gather news information weekly; and assess legal and ethical media issues at the final level of a traditional lower division Journalism sequence. Through news production, students will demonstrate proficiency in developing effective designs and layouts for story presentation; develop news stories through written, visual, audio, video or other multimedia formats; determine the best format –print, multimedia, visual —for telling basic news stories; build a portfolio that demonstrates a range of storytelling formats and styles; and navigate content management software used to create online publications.

Learning Outcome(s):

1. Students will apply the basic principles of journalism such as accuracy, fairness, and public service.
2. Students will demonstrate an understanding of the history and role of professionals and institutions in shaping communications and be able to discuss the legal and ethical underpinnings of U.S. Mass Media.
3. Students will research news stories using a variety of sources and evaluate the accuracy of information sources.

Required Core Courses:		**Units:**	**10**
CMSD 105	Mass Media and Society	3	
–OR–			
CMSD 105H	Honors Mass Media and Society	3	
CMSD 121	Introduction to Reporting and Newswriting	3	
CMSD 123A	News Media Production	4	
List A: select 1 course from the following:		**Units:**	**3-4**
CMSD 103	Introduction to Visual Communications	3	
–OR–			
CMSD 123B	Intermediate News Media Production	4	
–OR–			
CMSD 160	Introduction to Photojournalism	3	
–OR–			
CMSD 210	Intermediate Reporting and Newswriting	3	
List B: select 2 courses from the following:		**Units:**	**3-4**
CMSD 111	Media, Race and Gender	3	
–OR–			
CMSD 298A	Designing for Print and Digital Media	3	
–OR–			
CNSL 144	Reasoning and Problem Solving	3	
–OR–			
ECON 120	Principles/Macro	3	
–OR–			
ECON 121	Principles/Micro	3	
–OR–			
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
–OR–			
ENGL 103	Critical Thinking and Writing	4	
–OR–			
ENGL 103H	Honors Critical Thinking and Writing	4	
–OR–			
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
–OR–			
PHIL 110	Critical Thinking	4	
–OR–			
PHIL 110H	Honors Critical Thinking	4	
–OR–			
PHIL 111	Introductory Logic	4	
–OR–			
PHIL 144	Reasoning and Problem Solving	3	
–OR–			
PHOT 180	Beginning Photography	3	
–OR–			
POLT 101	Introduction to American Governments	3	
–OR–			
POLT 101H	Honors Introduction to American Governments	3	
–OR–			
POLT 201	Introduction to Comparative Politics	3	
–OR–			
READ 150	Critical Reading	3	
–OR–			
SOCS 219	Statistics and Probability	4	
–OR–			
SOCS 219H	Honors Statistics and Probability	4	
		Total:	**16-18**

Communications and Media Studies: Certificate of Achievement *(Transcripted)*

Program code: SAC.CMSD.CA

Program Control Number: 21753

The certificate program in Communications and Media Studies offers students a unique blend of theory and practice. The program provides critical and cultural analysis of media and communications in conjunction with a hands-on production sequence in print, digital, and Web- based multimedia, leading to potential entry-level positions in multimedia and communications fields.

Learning Outcome(s):

1. Students will apply the basic principles of journalism such as accuracy, fairness, and public service.
2. Students will demonstrate an understanding of the history and role of professionals and institutions in shaping communications and be able to discuss the legal and ethical underpinnings of U.S. Mass Media.
3. Students will research news stories using a variety of sources and evaluate the accuracy of information sources.

Required Core Courses:		**Units:**	**25**
CMSD 102	Multimedia Storytelling	3	
CMSD 103	Visual Communications	3	
CMSD 110	Introduction to Creative Nonfiction	4	
CMSD 121	Introduction to Reporting and Newswriting	3	
CMSD 123A	News Media Production	4	
CMSD 201	Visual Reporting	2	
CMSD 222	Writing Across Media	3	
CMSD 298A	Designing for Print and Digital Media	3	
		Total:	**25**

COMMUNITY SOCIAL SERVICES

Community Social Services Degree: AA

Program code: SAC.CSS.AA

Program Control Number: 30752

The major cours requirements for the associate degree in Community Social Services enable students to move into a transfer curriculum at a four-year university that can lead to a baccalaureate degree in Human Services. The baccalaureate degree in Human Services prepares students for graduate programs in Counseling, Social Work and Marriage and Family Therapy.

Please see a counselor for specific course requirements for your transfer university.

Learning Outcome(s):

1. Students will think critically and communicate effectively about community social service issues using written and oral communication.
2. Students will demonstrate the effective use of empathic listening and interviewing skills
3. Students will evaluate and integrate information to draw reasonable conclusions based on evidence.

Required Core Courses:		**Units:**	**12**
CNSL 150	Introduction to Human Services	3	
CNSL 155	Skills for the Helping Professions	3	
CDEV 107	Child Growth and Development (DS1)	3	
–OR–			
PSYC 157	Introduction to Child Psychology	3	
SOC 112	Relationships, Marriages, and Family Dynamics	3	
–OR–			
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	

Select a minimum of SIX units from the electives below:		**Units:**	**6-7**
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
BIOL 149	Human Anatomy and Physiology	4	
CDEV 116A	Infant/Toddler Growth and Development (DS4)	3	
CDEV 110	Child, Family, and Community (DS2)	3	
CDEV 205	Introduction to Children with Special Needs	3	
CDEV 220	The Child as a Victim	3	
CNSL 116	Career/Life Planning and Personal Exploration	3	
EDUC 100	Introduction to Education	3	
EDUC 210	The Teaching Experience: Secondary Education	3	
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
MATH 105	Mathematics for Liberal Arts Students	3	
PSYC 250	Introduction to Abnormal Psychology	3	
SOCS 219	Statistics and Probability	4	
–OR–			
SOCS 219H	Honors Statistics and Probability	4	
SOC 100	Introduction to Sociology	3	
–OR–			
SOC 100H	Honors Introduction to Sociology	3	
SOC 112	Relationships, Marriages, and Family Dynamics	3	
–OR–			
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
		Total:	**18-19**

COMPUTER INFORMATION SYSTEMS

Computer Information Systems (CIS) is a program for students interested in the application of computer hardware and software to business. CIS courses prepare students for entry-level positions in programming, networking, or computer support. These courses may be used for job advancement, an associate degree or certificate of competency, or transfer to a four-year institution. CIS courses cover major programming languages (Visual BASIC, C++, Java) as well as software used in business for database management, spreadsheets, and networking. The introductory course for the CIS program is BUS 150.

Computer Information Systems Degree: AS

Program code: SAC.CIS.AS

Program Control Number: 04196

Computer Information Systems (CIS) is a program for students interested in the application of computer hardware, and software to business. CIS courses prepare students for entry-level positions in information technology, networking, web and application development, networking, or database administration. These courses may be used for job advancement, an associate degree or certificate of achievement, or transfer to a four-year institution. CIS courses cover major programming languages (Visual BASIC, C++, Java) as well as software used in business for database management, spreadsheets, and networking.

Students intending to obtain a bachelor's degree in Computer Information Systems should consult the major requirements for upper division standing listed under the Business Administration major at the school of their choice.

Learning Outcome(s):

1. Describe ethical, professional, and legal challenges that confront computer information systems and information technology.
2. Design, implement, manage and administer secure computer information systems and information technology.
3. Evaluate best practices in implementing hardware, software, networking, information technology management and security to enhance business processes and competitive advantages.
4. Develop written documentation and presentations, individually and in collaborative environments, that provide solutions to computer information systems and information technology challenges.

Required Core Courses:		**Units:**	**20**
BA 189	Advanced Microsoft Excel	2	
CMPR 105	Visual BASIC Programming	3	
CMPR 134	Microsoft Windows Operating System	3	
CMPR 138	CompTIA Network+ Guide to Networks	3	
CMPR 167	Microsoft Access	3	
CMPR 205	Advanced Visual Basic	3	
CMPR 247	Windows Server Operating System	3	
Select ONE course from the following:		**Units:**	**3**
BUS 150	Introduction to Information Systems and Applications	3	
–OR–			
CMPR 100	The Computer and Society	3	
Select a minimum of THREE units from the following:		**Units:**	**3**
ACCT 101	Financial Accounting	4	
ACCT 102	Managerial Accounting	4	
CMPR 104	Cooperative Work Experience Education-Occupational	1-4	
CMPR 112	Java Programming	3	
CMPR 118	JavaScript Programming	3	
CMPR 120	Introduction to Programming	3	
CMPR 121	Programming Concepts	3	
CMPR 125	Help Desk Fundamentals	3	
CMPR 152	HTML	3	
CMPR 153	A+ Essentials Hardware	3	
CMPR 154	A+ Essentials Software	3	
CMPR 169	Structured Query Language (SQL)	3	
CMPR 175	CompTIA Security+ Guide to Network Security	3	
CMPR 248	Microsoft SQL Server	3	
		Total:	**26**

Computer Information Systems: Certificate of Achievement *(Transcripted)*

Program code: SAC.CIS.CA

Program Control Number: 21757

Computer Information Systems (CIS) is a program for students interested in the application of computer hardware, and software to business. CIS courses prepare students for entry-level positions in information technology, networking, web and application development, networking, or database administration. These courses may be used for job advancement, an associate degree or certificate of achievement, or transfer to a four-year institution. CIS courses cover major programming languages (Visual BASIC, C++, Java) as well as software used in business for database management, spreadsheets, and networking.

Students intending to obtain a bachelor's degree in Computer Information Systems should consult the major requirements for upper division standing listed under the Business Administration major at the school of their choice.

Learning Outcome(s):

1. Describe ethical, professional, and legal challenges that confront computer information systems and information technology.
2. Design, implement, manage and administer secure computer information systems and information technology operations.
3. Evaluate best practices in implementing hardware, software, networking, information technology management and security to enhance business processes and competitive advantages.
4. Develop written documentation and presentations, individually and in collaborative environments, that provide solutions to computer information systems and information technology challenges.

Required Core Courses:		**Units:**	**20**
BA 189	Advanced Microsoft Excel	2	
CMPR 105	Visual BASIC Programming	3	
CMPR 134	Microsoft Windows Operating System	3	
CMPR 138	CompTIA Network+ Guide to Networks	3	
CMPR 167	Microsoft Access	3	
CMPR 205	Advanced Visual Basic	3	
CMPR 247	Windows Server Operating System	3	
Select ONE course from the following:		**Units:**	**3**
BUS 150	Introduction to Information Systems and Applications	3	
–OR–			
CMPR 100	The Computer and Society	3	
Select a minimum of THREE units from the following:		**Units:**	**1-4**
ACCT 101	Financial Accounting	4	
ACCT 102	Managerial Accounting	4	
CMPR 104	Cooperative Work Experience Education-Occupational	1-4	
CMPR 112	Java Programming	3	
CMPR 118	JavaScript Programming	3	
CMPR 120	Introduction to Programming	3	
CMPR 121	Programming Concepts	3	
CMPR 125	Help Desk Fundamentals	3	
CMPR 152	HTML	3	
CMPR 153	A+ Essentials Hardware	3	
CMPR 154	A+ Essentials Software	3	
CMPR 169	Structured Query Language (SQL)	3	
CMPR 175	CompTIA Security+ Guide to Network Security	3	
CMPR 248	Microsoft SQL Server	3	
		Total:	**26-27**

Database: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.CISDB.CERT

Databases are essentially central to all businesses. They are the means by which large quantities of information can be stored, organized and retrieved, and are used to support an organization's operations, such as payroll and time sheets, project management, inventory and health records.

This certificate is designed to prepare students in the career as an entry-level database analyst/ administrator or those information technology professionals who would like to concentrate in developing and supporting database management systems. This certificate provides training in creating and maintaining databases based on fundamentals of relational database and Structured Query Language (SQL), and training in generating queries for ad-hoc reporting, stored procedures and functions using the latest database management system (DBMS) software such as Microsoft SQL Server, Oracle and MS Access.

Learning Outcome(s):

1. Use Microsoft Access to create a professional and user-friendly working database, to create effective queries in retrieving data, to create effective reports based on given criteria and to create useful and professional mainform/subforms
2. Manage, update and retrieve data from DBMS (Database Management System) using the SQL Language commands
3. Design database by applying normalization rules and create E-R (Entity Relationship) and UML (Unified Modeling Language) diagrams for a given database scenario
4. Create applications using appropriate Visual Basic or Java programming language to update database table data

Required Core Courses:		**Units:**	**9**
CMPR 167	Microsoft Access	3	
CMPR 168	Microsoft Access - Visual Basic for Applications	3	
CMPR 169	Structured Query Language (SQL)	3	
Select ONE group of the following courses:		**Units:**	**6**
CMPR 105	Visual BASIC Programming	3	
–AND–			
CMPR 205	Advanced Visual Basic	3	
–OR–			
CMPR 112	Java Programming	3	
–AND–			
CMPR 113	Advanced Java	3	
		Total:	**15**

Enterprise Systems: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.CMPRES.CERT

Prepares students to be involved with running Enterprise (large-scale) computer systems. Students will learn how to design and configure multi-computer networking systems, configure, administrate, and maintain servers, and manage related issues such as reliability, safety and security.

Learning Outcome(s):

1. Students will know how to use Enterprise System software.

Required Core Courses:		**Units:**	**12**
CMPR 173	Introduction to Networking Technology	3	
CMPR 247	Windows Server Operating System	3	
CMPR 248	Microsoft SQL Server	3	
CMPR 249	Microsoft Internet Information Server (IIS)	3	
		Total:	**12**

Web Site Development: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.CISWP.CERT

Web Site Development gives students the skills to design, implement, and publish content (pages) on the World Wide Web.

Learning Outcome(s):

1. Students will know how to use web programming software.

Required Core Courses:		**Units:**	**6**
CMPR 152	HTML	3	
CMPR 118	JavaScript Programming	3	
Select ONE course from the following		**Units:**	**3**
CMPR 112	Java Programming	3	
–OR–		3	
CMPR 213	Programming C#		
		Total:	**9**

COMPUTER SCIENCE

Computer Science courses are designed to meet the varying goals of students interested in employment or education in the computer field. There are courses on specific languages for professionals who want to supplement their skills with the knowledge of a current programming language (PC Assembler, C++, Visual BASIC, Java). A certificate in computer science can be earned by those students desiring to enter the workplace at entry-level positions. Also, an associate degree can be earned by those students desiring to transfer to a four-year institution with a major in Computer Science. The Computer Science courses provide instruction in low-level and high-level languages, intermediate and advanced techniques in programming, and hardware organization. Refer to Computer Science in the courses section of this catalog and to the schedule of classes for specific information.

Computer Science Degree: AS

Program code: SAC.CMPR.AS

Program Control Number: 04197

The associate degree curriculum in computer science leads to entry-level employment in computer science, engineering and other areas where high aptitude in computer programming is recognized. The program prepares students for careers as engineering aides, scientific computing technicians and junior programmers. The program also prepares students to transfer to a university with a major in Computer Science.

Learning Outcome(s):

1. Students will know how to use computer science software.

Required Core Courses:		**Units:**	**16**
CMPR 100	The Computer and Society	3	
CMPR 120	Introduction to Programming	3	
CMPR 121	Programming Concepts	3	
CMPR 129	Introduction to Computer Organization	4	
CMPR 131	Data Structures Concepts	3	
Select ONE course from the following:		**Units:**	**3**
CMPR 112	Java Programming	3	
CMPR 205	Advanced Visual Basic	3	
CMPR 213	C# Programming	3	
Select an additional SIX units from the following:		**Units:**	**6-7**
CMPR 112	Java Programming	3	
CMPR 117	Perl Programming and CGI	3	
CMPR 118	JavaScript Programming	3	
CMPR 134	Microsoft Windows Operating System	3	
CMPR 135	Software Deployment Mechanisms	1.5	
CMPR 139	Configuration and Administration of Local Area Networks	1.5	
CMPR 140	Discrete Structures for Computer Science	3	
CMPR 141	UNIX Operating System	3	
CMPR 142	Advanced Unix	3	
CMPR 205	Advanced Visual Basic	3	
CMPR 213	C# Programming	3	
CMPR 243	UNIX System Programming	3	
CMPR 247	Windows Server Operating System	3	
CMPR 249	Microsoft Internet Information Server (IIS)	3	
CMPR 248	Microsoft SQL Server	3	
MATH 180	Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
		Total:	**25-26**

Computer Science Degree for Transfer: AS-T

Program code: SAC.CMPR.AST

Program Control Number: 32396

The Associate in Science in Computer Science for Transfer (AS-T Computer Science) prepares students to transfer into the CSU system. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Science in Computer Science for Transfer (AS-T Computer Science) also provides guaranteed admission with junior status to the CSU system although does not guarantee acceptance to a particular campus or major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Computer Science (AS-T Computer Science), students will be well- versed in the use of standard computer control structures to solve problems and develop algorithms. They will have developed skills in writing programs that utilize functions as a method of program organization and control. Additional areas of emphasis will include objects, object-oriented programming, data structures, and abstract data types. Computer science students will also obtain knowledge of computer architecture and organization. The Computer Science curriculum also requires the student to have significant skills in mathematics and the applications of those skills to real world problem solving.

Learning Outcome(s):

1. Students will know how to use computer science software.

Required Core Courses:		**Units:**	
CMPR 121	Programming Concepts	3	
CMPR 131	Data Structures Concepts	3	
CMPR 129	Introduction to Computer Organization	4	
CMPR 140	Discrete Structures for Computer Science	3	
MATH 180	Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
PHYS 217	Engineering Physics I	4	
PHYS 227	Engineering Physics II	4	
		Total:	**29**

Note: Only IGETC (Plan C) will be accepted toward completion of the general education portion of this degree. Unlike other Associate Degrees for Transfer, CSU-GE (Plan B) completion will not be accepted for this degree. (An Oral Communication course, IGETC Area 1C, must be completed in order to meet CSU admission requirements.)

Computer Science: Certificate of Achievement *(Transcripted)*

Program code: SAC.CMPR.CA

Program Control Number: 21758

The certificate curriculum in computer science leads to entry-level employment in computer science, engineering and other areas where high aptitude in computer programming is recognized. The program prepares students for careers as engineering aides, scientific computing technicians and junior programmers. The program also prepares students to transfer to a university with a major in Computer Science.

Learning Outcome(s):

1. Students will know how to use computer science software.

Required Core Courses:		**Units:**	**16-17**
CMPR 100	The Computer and Society	3	
CMPR 120	Introduction to Programming	3	
CMPR 121	Programming Concepts	3	
CMPR 129	Introduction to Computer Organization	4	
CMPR 131	Data Structures Concepts	3	
Select ONE course from the following:		**Units:**	**3**
CMPR 112	Java Programming	3	
CMPR 205	Advanced Visual Basic	3	
CMPR 213	C# Programming	3	

Select an additional SIX units from the following:		Units:	6-7
CMPR 112	Java Programming	3	
CMPR 117	Perl Programming and CGI	3	
CMPR 118	JavaScript Programming	3	
CMPR 134	Microsoft Windows Operating System	3	
CMPR 135	Software Deployment Mechanisms	1.5	
CMPR 139	Configuration and Administration of Local Area Networks	1.5	
CMPR 140	Discrete Structures for Computer Science	3	
CMPR 141	UNIX Operating System	3	
CMPR 142	Advanced Unix	3	
CMPR 205	Advanced Visual Basic	3	
CMPR 213	C# Programming	3	
CMPR 243	UNIX System Programming	3	
CMPR 244	Microsoft Exchange Server	3	
CMPR 247	Windows Server Operating System	3	
CMPR 248	Microsoft SQL Server	3	
CMPR 249	Microsoft Internet Information Server (IIS)	3	
MATH 180	Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
		Total:	**28-30**

Programming: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.CMRP.CERT

The associate degree and certificate curriculum in computer science leads to entry-level employment in computer science, engineering and other areas where high aptitude in computer programming is recognized. The program prepares students for careers as engineering aides, scientific computing technicians and junior programmers. The program also prepares students to transfer to a university with a major in Computer Science.

Learning Outcome(s):

1. Students will know how to use programming software.

Required Core Courses:		Units:	9
CMPR 120	Introduction to Programming	3	
CMPR 121	Programming Concepts	3	
CMPR 131	Data Structures Concepts	3	
Select ONE course from the following:		**Units:**	**3**
CMPR 112	Java Programming	3	
CMPR 205	Advanced Visual Basic	3	
CMPR 213	C# Programming	3	
		Total:	**12**

CRIMINAL JUSTICE

Criminal Justice Degree: AS

Program code: SAC.CJ.AS

Program Control Number: 04249

The Criminal Justice Option Degree curriculum is designed to prepare students for entry-level employment in local, state, federal, or private sector criminal justice agencies that do not require bachelor's degrees, and to provide students who wish to transfer to a four-year academic institution with 27 units of criminal justice course work. This degree prepares students for careers in the fields of law enforcement, probation, corrections, courts, and private security.

Learning Outcome(s):

1. Develop in students pursuing Criminal Justice careers the skills to evaluate career opportunities.
2. Develop critical thinking and ethical reasoning in students interested in the criminal justice field.

Required Core Courses:		Units:
CJ 101	Introduction to Criminal Justice	3
–OR–		
CJ 101H	Honors Introduction to Criminal Justice	3
CJ 102	Introduction to Corrections	3
CJ 103	Concepts of Criminal Law	3
–OR–		
CJ 103H	Honors Concepts of Criminal Law	3
CJ 105	Legal Aspects of Evidence	3
CJ 107	Principles and Procedures in the Criminal Justice System	3
–OR–		
PARA 107	Principles and Procedures in the Criminal Justice System	3
CJ 109	Community Interaction	3
–OR–		
CJ 109H	Honors Community Interaction	3
CJ 148	Report Writing for Criminal Justice Personnel	3

Electives: 6 units Select electives from the following list:		Units:	
CJ 104	Prison Experience	3	
CJ 106	Coroner Death Investigations	3	
CJ 108	Crime Scene Investigation	3	
CJ 110	Street Gangs	3	
CJ 205	Criminal Investigation Principles	3	
CJ 209	Organized Crime	3	
CJ 210	Drug Abuse and Criminal Justice	3	
CJ 220	Juvenile Delinquency and Control	3	
		Total:	**27**

Administration of Justice Degree for Transfer: AS-T

Program code: SAC.CJ.AST

Program Control Number: 32255

The Associate in Science in Administration of Justice for Transfer (AS-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Criminal Justice.

Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AS-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to a local CSU, in the Criminal Justice major. **See page 29** **for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Administration of Justice students will have a greater understanding of illegal behavior and how their behavior interacts with the criminal justice system. The student will also learn the operation of the criminal justice system from arrest, trial, corrections and release into the community.

Learning Outcome(s):

1. Develop critical thinking and ethical reasoning in students interested in the criminal justice field.
2. Develop in students pursuing Criminal Justice careers the skills to evaluate career opportunities.

Required Core Courses:		**Units:**	**6**
CJ 101	Introduction to Criminal Justice	3	
–OR–			
CJ 101H	Honors Introduction to Criminal Justice	3	
CJ 103	Concepts of Criminal Law	3	
–OR–			
CJ 103H	Honors Concepts of Criminal Law	3	
List A - Select two courses (6 units)		**Units:**	**6**
CJ 102	Introduction to Corrections	3	
CJ 105	Legal Aspects of Evidence	3	
CJ 107	Principles and Procedures in the Criminal Justice System	3	
–OR–			
PARA 107	Principles and Procedures in the Criminal Justice System	3	
CJ 108	Crime Scene Investigation	3	
CJ 109	Community Interaction	3	
CJ 205	Criminal Investigation Principles	3	
CJ 220	Juvenile Delinquency and Control	3	
List B – select two course (6 units)		**Units:**	**6**
CJ 106	Coroner Death Investigations	3	
CJ 210	Drug Abuse and Criminal Justice	3	
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
–OR–			
PSYC 210	Statistics for the Behavioral Sciences	4	
PHIL 110	Critical Thinking	4	
–OR–			
PHIL 110H	Honors Critical Thinking	4	
PHIL 111	Introductory Logic	4	
POLT 101	American Government and Politics	3	
–OR–			
POLT 101H	Honors American Government and Politics	3	
SOC 100	Introduction to Sociology	3	
–OR–			
SOC 100H	Honors Introduction to Sociology	3	
		Total:	**18**

Total General Education CSU-General Education Breadth –OR– 41*
Intersegmental General Education Transfer Curriculum (IGETC) 39*
CSU Transferable Elective Units As Needed to Total 60 degree units
Total Number of Degree Units 60

Law Enforcement Option: Certificate of Achievement

(Transcripted)

Program code: SAC.CJLE.CA

Program Control Number: 21796

The Law Enforcement Option Certificate is designed to meet or exceed the minimum P.O.S.T. requirements for entry-level employment as peace officers. This certificate requires successful completion of the Basic Police Academy (CJA 099A). Students interested in this certificate should contact an academic counselor, the Criminal Justice Academies, and the Criminal Justice Department for details.

Learning Outcome(s):

1. Develop critical thinking and ethical reasoning in students interested in the law enforcement field.
2. Appraise the responsibilities of the law enforcement profession.

Required Core Courses:		**Units: 46-48**
CJA 010	Pre-Employment Preparation for Law Enforcement	1.5
CJA 099A	Basic Police Academy	29.5-31.5
CJ 101	Introduction to Criminal Justice	3
–OR–		
CJ 101H	Honors Introduction to Criminal Justice	3
CJ 103	Concepts of Criminal Law	3
–OR–		
CJ 103H	Honors Concepts of Criminal Law	3
CJ 105	Legal Aspects of Evidence	3
CJ 107	Principles and Procedures in the Criminal Justice System	3
–OR–		
PARA 107	Principles and Procedures in the Criminal Justice System	3
CJ 109	Community Interaction	3
–OR–		
CJ 109H	Honors Community Interaction	3
		Total: 46-48

Corrections Officer Program: Certificate of Proficiency

(Untranscripted)

Program code: SAC.CJCO.CERT

The Corrections Officer Certificate is designed to upgrade the skills and knowledge that criminal justice professionals require, and provides knowledge of new procedures, policies, and judicial rulings to anyone interested in the criminal justice system, particularly in the field of corrections. This certificate consists of course work that is fundamental for working in the fields of law enforcement, probation, corrections, courts, and private security, and leads to completion of the Criminal Justice Option Degree.

Learning Outcome(s):

1. Develop critical thinking and ethical reasoning in students interested in the criminal justice field.
2. Develop in students pursuing Criminal Justice careers the skills to evaluate career opportunities.

Required Core Courses:		**Units:**	**18**
CJ 101	Introduction to Criminal Justice	3	
–OR–			
CJ 101H	Honors Introduction to Criminal Justice	3	
CJ 102	Introduction to Corrections	3	
CJ 103	Concepts of Criminal Law	3	
–OR–			
CJ 103H	Honors Concepts of Criminal Law	3	
CJ 105	Legal Aspects of Evidence	3	
CJ 148	Report Writing for Criminal Justice Personnel	3	
CJ 205	Criminal Investigation Principles	3	
		Total:	**18**

DANCE

Dance Degree: AA

Program code: SAC.DNCE.AA

Program Control Number: 04222

The associate of arts degree program in dance provides training in three areas of technique: ballet, modern, and jazz. Integral parts of the curriculum are practical experience in concert performance and production work as well as a theoretical background in choreography, somatics and dance history. Completion of the Associate of Arts degree prepares the student to enter a four-year institution leading to a baccalaureate degree. Please consult a SAC counselor for information about course requirements for particular four-year institutions. The dance program provides training for careers and employment in the performing arts, education, choreography, movement therapy, arts consultancy, dance criticism and related fields.

Learning Outcome(s):

1. Summarize the history of classic and contemporary dance forms.
2. Demonstrate a clear understanding of the interaction between choreographer, performer, and audience, and recognize the production components of lighting, costume, and set design through the creation and presentation of dance in public performances.
3. Execute proficiency in performance and technical skills in modern, ballet, and jazz dance and apply somatic approaches to dance training.

Required Core Courses:		**Units: 41-42**
DNCE 100	Dance History and Appreciation	3
-OR-		
DNCE 100H	Honors Dance History and Appreciation	3
DNCE 201A	Ballet I	2
DNCE 201B	Ballet II	2
DNCE 202B	Choreography for Dance Majors	3
DNCE 204A	Dance Production I	2
DNCE 204B	Dance Production II	2
DNCE 206A	Modern Dance I	2
DNCE 206B	Modern Dance II	2
DNCE 209	Modern Dance III	2
DNCE 210	Modern Dance IV	2
DNCE 213	Ballet III	2
DNCE 214	Ballet IV	2
DNCE 219A	Jazz Dance I	2
DNCE 219B	Jazz Dance II	2
DNCE 220	Jazz Dance III	2
DNCE 221	Jazz Dance IV	2
DNCE 240A	Repertory I	2
DNCE 240B	Repertory II	2
DNCE 260	Somatic Practices in Dance	3

Plus 2 units from the following electives:		**Units: 2-3**
DNCE 009A	Dance Laboratory I	0.5
DNCE 009B	Dance Laboratory II	0.5
DNCE 009C	Dance Laboratory III	0.5
DNCE 009D	Dance Laboratory IV	0.5
DNCE 102	Introduction to Dance Forms	3
DNCE 105	World Dance and Cultures	3
DNCE 106A	Introduction to Modern Dance	1
DNCE 106B	Introduction to Modern Dance	1
DNCE 107	Dance Concert Performance	1
DNCE 108A	Introduction to Ballet	1
DNCE 108B	Introduction to Ballet	1
DNCE 119A	Introduction to Jazz Dance	1
DNCE 119B	Introduction to Jazz Dance	1
DNCE 120A	Introduction to Hip-Hop Dance	1
DNCE 120B	Intermediate Hip-Hop Dance	1
DNCE 122	Commercial Contemporary Dance	1
DNCE 123	Introduction to Salsa Dance	1
DNCE 124	Intermediate Salsa Dance	1
DNCE 130	Dance Improvisation	1
DNCE 140	Dance Repertory Workshop	1
DNCE 180	Professional Studio Practices	2
DNCE 202A	Choreography	3
DNCE 240C	Repertory III	2
DNCE 240D	Repertory IV	2
DNCE 250A	Hip-Hop Dance I	2
DNCE 250B	Hip-Hop Dance II	2
DNCE 251	Hip-Hop Dance III	2
DNCE 261	Somatic Practices in Modern Dance	1
DNCE 262	Somatic Practices in Ballet	1
DNCE 263	Somatic Practices in Jazz Dance	1
DNCE 270	Dance Practicum	1
DNCE 296	Special Studies in Modern Dance	1
DNCE 297	Special Studies in Jazz Dance	1
DNCE 298	Special Studies in Ballet Dance	1

Total: 43-45

Dance: Certificate Achievement

Program code: SAC.DNCE.CA

Program Control Number: 21786

The certificate program in dance combines comprehensive advanced courses in dance technique with courses of a specialized nature to provide a complete program of study and training in technique and performance.

This program is designed to develop skills necessary for a career as a dance performer and to provide extensive pre-professional performance experience. Employment opportunities exist in a variety of areas: dance companies; instructor in private dance studios; dancer for commercial stage, television, and film; choreographer/performer in music videos; and production choreographer.

Learning Outcome(s):

1. Demonstrate competency in the creation and presentation of dance in public performances.
2. Execute proficiency in performance and technical skills in modern, ballet, jazz, hip-hop and contemporary dance styles, to audition for commercial performance venues.
3. Develop an understanding of the interaction between choreographer, performer and audience, and the production components of lighting, costume and set design, through the creation and presentation of dance in public performances.

Required Core Courses:		**Units: 32**
DNCE 122	Commercial Contemporary Dance	1
DNCE 180	Professional Studio Practices	2
DNCE 202B	Choreography for Dance Majors	3
DNCE 204A	Dance Production I	2
DNCE 204B	Dance Production II	2
DNCE 205A	Dance Touring Ensemble I	2
DNCE 205B	Dance Touring Ensemble II	2
DNCE 209	Modern Dance III	2

DNCE 210	Modern Dance IV	2
DNCE 213	Ballet III	2
DNCE 214	Ballet IV	2
DNCE 220	Jazz Dance III	2
DNCE 221	Jazz Dance IV	2
DNCE 240A	Repertory I	2
DNCE 240B	Repertory II	2
DNCE 251	Hip-Hop Dance III	2
Choose 2-3 units from these recommended electives:		**Units: 2-3**
DNCE 009A	Dance Laboratory I	0.5
DNCE 009B	Dance Laboratory II	0.5
DNCE 009C	Dance Laboratory III	0.5
DNCE 009D	Dance Laboratory IV	0.5
DNCE 105	World Dance and Cultures	3
DNCE 107	Dance Concert Performance	1
DNCE 109A	Pilates Mat I	1
DNCE 109B	Pilates Mat II	1
DNCE 109C	Pilates Mat III	1
DNCE 110	Beginning Mexican Folk Dance	1
DNCE 111	Intermediate Mexican Folk Dance	1
DNCE 112	Ethnic Dance	1
DNCE 117	Introduction to Middle Eastern Dance	1
DNCE 118	Introduction to Caribbean and Latin Dance Styles	1
DNCE 123	Introduction to Salsa Dance	1
DNCE 124	Intermediate Salsa Dance	1
DNCE 130	Dance Improvisation	1
DNCE 198	(No Title)	
DNCE 204C	Dance Production III	2
DNCE 204D	Dance Production IV	2
DNCE 205C	Dance Touring Ensemble III	2
DNCE 205D	Dance Touring Ensemble IV	2
DNCE 240C	Repertory III	2
DNCE 240D	Repertory IV	2
DNCE 250A	Hip-Hop Dance I	2
DNCE 250B	Hip-Hop Dance II	2
DNCE 260	Somatic Practices in Dance	3
DNCE 261	Somatic Practices in Modern Dance	1
DNCE 262	Somatic Practices in Ballet	1
DNCE 263	Somatic Practices in Jazz Dance	1
DNCE 270	Dance Practicum	1
DNCE 290	Choreography for the Camera	3
DNCE 291	Dance Film Production	3
DNCE 296	Special Studies in Modern Dance	1
DNCE 297	Special Studies in Jazz Dance	1
DNCE 298	Special Studies in Ballet Dance	1
TELV 110	Introduction to Television Production	3
THEA 110	Acting Fundamentals	3
THEA 113	Acting for the Camera	3
THEA 132	Stage Makeup	3
		Total: 34-35

DIESEL

Diesel and Heavy Equipment Technology Degree: AS

Program code: SAC.DSL.AS

Program Control Number: 04207

In addition to the general education requirements, the associate degree in diesel and heavy equipment is designed to successfully prepare students to enter the medium and heavy-duty transportation industry as an apprentice or helper diesel mechanic or provide supplementary knowledge for equipment operators and truck drivers. The program provides lecture and lab activities related towards heavy-duty diesel engine, powertrain units, steering and suspension components, brakes, electrical, and fuel systems, as well as developing oxyacetylene and arc welding skills. Those working in the industry will be able to improve their competencies in each subject area. Employment opportunities exist for trained men and women in a rapidly expanding field.

Learning Outcome(s):

1. Demonstrate proper vehicle inspection procedure when completing a vehicle pre-trip inspection to identify defects
2. Develop the skills in properly measuring and analyzing heavy duty diesel brake assembly for defects
3. Demonstrate proper vehicle inspection of medium/heavy duty fuel system

Required Core Courses:		**Units: 29**
DSL 108	Oxyacetylene-Arc Welding	3
DSL 109	Truck Chassis: Brake and Suspension Service	4
DSL 110	Truck Chassis: Drive Train Service	4
DSL 125	Heavy Duty Diesel Engine: Top End Service	4
DSL 126	Heavy Duty Diesel Engine: Bottom End Service	4
DSL 132	Diesel Fuel Injection Systems Service	5
DSL 140	Diesel Electrical Systems	5
Electives: Pick 3 units from the following:		**Units: 3-5**
DSL 101	Truck Preventative Maintenance	5
–OR–		
DSL 113	Allison Transmission Service	5
–OR–		
DSL 115	Introduction to Heavy Duty Mobile Hydraulics	5
–OR–		
DSL 121	Mid-Range Diesel Engine Service	4.5
–OR–		
DSL 122	Electronics Fundamentals	5
–OR–		
DSL 160	Foundations of Mobile Air Conditioning and Refrigeration	5
–OR–		
DSL 162	Air Conditioning and Heating	3
–OR–		
DSL 202	Introduction to Coach Operations	1
–OR–		
DSL 203	Transit Vehicle Electrical Systems	2
–OR–		
DSL 204	Transit Vehicle Air Systems	0.5
–OR–		
DSL 205	Transit Vehicle Air Brake Systems	1
–OR–		
DSL 206	Transit Vehicle Automatic Transmissions	1.5
–OR–		
DSL 207	Transit Vehicle Engines	2.5

–OR–		
DSL 208	Transit Vehicle Heating, Ventilation, Air Conditioning	1.5
–OR–		
DSL 209	Transit Vehicle Drive Train Suspension	1
–OR–		
DSL 210	Transit Vehicle Wheelchair Lifts	0.5
–OR–		
DSL 287	Alternative Fuels	3
–OR–		
DSL 288	Diesel Engines: Light-Medium Duty Systems	3
	Total:	**32-34**

Mid-Range Engine Service Degree: AS

Program code: SAC.DSLMR.AS

Program Control Number: 08712

In addition to the general education requirements, the associate degree curriculum in mid-range diesel engine service is designed to prepare students with knowledge and skills applicable to light to medium-duty diesel engines mass-produced in the trucking industry. Experience will be acquired in domestic and import versions of these engines. Students currently working in the trade on medium-duty gasoline engines or new students entering in the trade will benefit from this training.

Learning Outcome(s):

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

1. Explain basic mechanical and electrical medium/heavy duty truck operation.
2. Examine medium/heavy duty truck engines for correct operation and soundness.

Required Core Courses:		**Units:**	**20.5**
DSL 108	Oxyacetylene-Arc Welding	3	
DSL 121	Mid-Range Diesel Engine Service	4.5	
DSL 125	Heavy Duty Diesel Engine: Top End Service	4	
DSL 126	Heavy Duty Diesel Engine: Bottom End Service	4	
DSL 140	Diesel Electrical Systems	5	
Electives: 3 units Select electives from the following list:		**Units:**	**3-5**
DSL 101	Truck Preventative Maintenance	5	
–OR–			
DSL 122	Electronics Fundamentals	5	
–OR–			
DSL 160	Foundations of Mobile Air Conditioning and Refrigeration	5	
–OR–			
DSL 162	Air Conditioning and Heating	3	
–OR–			
DSL 165	Transport Refrigeration	5	
–OR–			
DSL 287	Alternative Fuels	3	
–OR–			
DSL 288	Diesel Engines: Light-Medium Duty Systems	3	
	Total:		**23.5-25.5**

Diesel and Heavy Equipment Technology: Certificate of Achievement *(Transcripted)*

Program code: SAC.DSL.CA

Program Control Number: 21772

The certificate curriculum in diesel and heavy equipment is designed to successfully prepare students to enter the medium and heavy-duty transportation industry as an apprentice or helper- diesel mechanic or provide supplementary knowledge for equipment operators and truck drivers. The program provides lecture and lab activities related towards heavy-duty diesel engines, power train units, steering and suspension components, brakes, electrical, and fuel systems as well as developing oxyacetylene and arc welding skills. Those working in the industry will be able to improve their competencies in each subject area. Employment opportunities exist for trained men and women in a rapidly expanding field.

Learning Outcome(s):

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

1. Demonstrate skills in locating information and service procedures of heavy duty diesel systems.
2. Develop skills in properly measuring and analyzing heavy duty diesel vehicle concerns.

Required Core Courses:		**Units:**	**29**
DSL 108	Oxyacetylene-Arc Welding	3	
DSL 109	Truck Chassis: Brake and Suspension Service	4	
DSL 110	Truck Chassis: Drive Train Service	4	
DSL 125	Heavy Duty Diesel Engine: Top End Service	4	
DSL 126	Heavy Duty Diesel Engine: Bottom End Service	4	
DSL 132	Diesel Fuel Injection Systems Service	5	
DSL 140	Diesel Electrical Systems	5	
	Total:		**29**

Mid-Range Engine Service Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.DSLMR.CA

Program Control Number: 21770

The certificate curriculum in mid-range diesel engine service is designed to prepare students with knowledge and skills applicable to light to medium-duty diesel engines mass-produced in the trucking industry. Experience will be acquired in domestic and import versions of these engines. Students currently in the trade working on medium-duty gasoline engines or new students entering in the trade will benefit from this training.

Learning Outcome(s):

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

1. Explain basic mechanical and electrical medium/heavy duty truck operation.
2. Examine medium/heavy duty truck engines for correct operation and soundness.

Required Core Courses:		**Units:**	
DSL 108	Oxyacetylene-Arc Welding	3	
DSL 121	Mid-Range Diesel Engine Service	4.5	
DSL 125	Heavy Duty Diesel Engine: Top End Service	4	
DSL 126	Heavy Duty Diesel Engine: Bottom End Service	4	
DSL 140	Diesel Electrical Systems	5	
	Total:		**20.5**

Alternative Fuels - Clean Diesel: Certificate of Proficiency

(Untranscripted)

Program code: SAC.AFCD.CERT

This certificate focuses on the safety, operation, and maintenance of clean diesel and alternative fueled modern vehicles. Hands-on on procedures are included. Clean diesel fuel systems as well as CNG (Compressed Natural Gas) are emphasized. Other alternative fuels are covered. Training includes light, medium, and heavy duty applications. Examples include automobiles, trucks, and transit buses.

Learning Outcome(s):

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

1. Describe and demonstrate correct safety procedures with respect to alternative fuels.

Required Core Courses:		Units:	11
DSL 132	Diesel Fuel Injection Systems Service	5	
DSL 287	Alternative Fuels	3	
DSL 288	Diesel Engines: Light-Medium Duty Systems	3	
		Total:	**11**

Heavy Duty Chassis Service: Certificate of Proficiency

(Untranscripted)

Program code: SAC.DSLHD.CERT

The Heavy Duty Chassis Service Certificate is designed to prepare the student for employment in the trucking industry. Within this certificate, there will be an emphasis on serviceability of suspension, steering, air brakes and chassis components. This program of study will also help prepare the student for national ASE T4 Brakes and T5 Suspension and Steering certification.

Learning Outcome(s):

1. Tear down and inspect heavy duty chassis on heavy duty equipment
2. Correctly diagnosis concerns on brakes, steering and chassis systems on heavy duty equipment
3. Replace brake, steering and chassis components on heavy duty equipment

Required Core Courses:		Units:	8
DSL 110	Medium/Heavy Duty Manual Drive Train Service	4	
DSL 109	Medium/Heavy Duty Truck Brake Service	4	
		Total:	**8**

Transit Bus Maintenance: Certificate of Proficiency

(Untranscripted)

Program code: SAC.DSLTB.CERT

The Transit Bus Maintenance Certificate is designed to train students in the field of transit bus service, repair, and troubleshooting. Completion of courses CERT1 through CERT10 prepares the student for industry. Safety, theory of operation, diagnosis, and service procedures are emphasized. The student must furnish approved safety equipment for the first meeting of the DSL 202 course. This equipment includes: Approved ANSI Safety Glasses, Reflective Safety Vest, and Steel-Toed Shoes.

Learning Outcome(s):

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

1. Explain basic safety operation concerns when operating a transit bus on assigned route
2. Explain proper steps in completing a transit bus pre-trip inspection

Required Core Courses:		Units:	
DSL 202	Introduction to Coach Operations	1	
DSL 203	Transit Vehicle Electrical Systems	2	
DSL 204	Transit Vehicle Air Systems	0.5	
DSL 205	Transit Vehicle Air Brake Systems	1	
DSL 206	Transit Vehicle Automatic Transmissions	1.5	
DSL 207	Transit Vehicle Engines	2.5	
DSL 208	Transit Vehicle Heating, Ventilation, Air Conditioning	1.5	
DSL 209	Transit Vehicle Drive Train Suspension	1	
DSL 210	Transit Vehicle Wheelchair Lifts	0.5	
		Total:	**11.5**

Transport Refrigeration/Temperature Control Option: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.DSLTR.CERT

Learning Outcome(s):

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

1. Demonstrate proper pre-trip inspection procedures prior to transport refrigeration operation.
2. Describe the maintenance schedule of a basic and hybrid transportation refrigeration unit.

The certificate curriculum in transport refrigeration is designed to prepare students to enter the field as an apprentice or helper service technician.The course work provides training in the service, repair, and troubleshooting techniques of Carrier Transicold and Thermo King truck and trailer refrigeration units. The course work is made up of lecture and lab performances on current production units, covering the refrigeration and electrical systems used to control the unit's operation to maintain desired product temperature to protect the consumer's health. Employment opportunities for men and women exist in this rapidly expanding field.

Required Core Courses:		Units:	
DSL 121	Mid-Range Diesel Engine Service	4.5	
–OR–			
DSL 132	Diesel Fuel Injection Systems Service	5	
DSL 140	Diesel Electrical Systems	5	
DSL 160	Foundations of Mobile Air Conditioning and Refrigeration	5	
DSL 165	Transport Refrigeration	5	
		Total:	**19.5-20**

Truck Air Conditioning Service: Certificate of Proficiency

(Untranscripted)

Program code: SAC.DSLAC.CERT

The Truck Air Conditioning Certificate is designed to prepare the student for employment in the trucking industry, servicing modern air conditioning and heating systems. Air conditioning theory, handling refrigerant on truck applications, and practical hands-on experience are emphasized. The student would be prepared for the national ASE T7 and EPA 609 certifications.

Learning Outcome(s):

1. Correctly handle refrigerant including recovery and recharging procedures on truck air conditioning systems.
2. Identify, locate, and describe truck air conditioning components and concerns.
3. Correctly identify electrical concerns related to air conditioning systems.
4. Knowledge of EPA 608 regulations related to air conditioning refrigerate handling.

Required Core Courses:		Units:	
DSL 162	Air Conditioning and Heating	3	
DSL 140	Diesel Electrical Systems	5	
DSL 165	Transport Refrigeration	5	
		Total:	**13**

DIGITAL MEDIA

Digital Media Degree: AA

Program code: SAC.DM.AA

Program control number: 04195

Completion of the associate degree prepares students to move into a four-year program leading to a baccalaureate degree. Please consult a SAC counselor for information about course requirements for particular four-year institutions. The associate degree also trains students to assume entry-level positions in broadcasting, cable TV, corporate video, and advertising.

Learning Outcome(s):

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

1. Students will demonstrate basic knowledge and operational skills associated with various technologies and equipment utilized in the production and post production of professional video programs.
2. Students will acquire sufficient knowledge and understanding of the various aspects and crew positions associated with producing professional television programs, so as to be able to effectively assess the technical and personnel requirements for a production, coordinate the necessary resources and successfully execute the plan as either an individual or a member of a production team.
3. Students will demonstrate critical thinking by reviewing and critiquing past and current movies and TV shows to assess their strengths and weakness from the point of view of the media consumer:

Required Core Courses:		**Units:**	**12**
DM100	Introduction to Electronic Media: TV, Radio, Film, and the Internet	3	
DM110	Introduction to Television Production	3	
DM112	Introduction to Video Editing and Postproduction	3	
DM130	Broadcasting for News & Sports	3	
Required Courses:		**Units:**	**18**
DM115A	Single-Camera Production and Editing	3	
DM120	Beginning Screenwriting for Digital Media	3	
DM150	Producing and Directing	3	
DM152	Beginning Audio Production	3	
DM230A	Beginning News & Sports Production	3	
DM260	Lighting Fundamentals	3	
Select 6 units from the following courses:		**Units:**	**6**
ART162	Digital Illustration I	3	
CMSD105	Mass Media and Society	3	
–OR–			
CMSD105H	Honors Mass Media and Society	3	
CMST151	Voice and Diction for Effective Communication	3	
DM101	TV and Society: A Visual History	3	
DM103	History of Film to 1945	3	
DM104	History of Film from 1945 to Present	3	
DM115B	Advanced Single-Camera Production and Editing	3	
DM121	Intermediate Screenwriting for Digital Media	3	
DM123	Advanced Screenwriting for Digital Media	3	
DM142	Acting for the Camera	3	
DM215	Advanced Single-Camera/Digital Cinema Production	3	
DM230B	Intermediate News & Sports Production	3	
DM230C	Advanced News & Sports Production	3	
DM230D	Executive News & Sports Production	3	
DM125	Cooperative Work Experience- Occupational	1 - 6	
DM240	Agency Film Production	3	
		Total:	**36**

Broadcast Journalism: Certificate of Achievement *(Transcripted)*

Program code: SAC.TVB.CA

Program control number: 10659

Emphasis on preparing students for work in television news programming, documentaries, or public service productions. Students will gain practical experience producing and staffing a weekly news show aired on local cable television.

Learning Outcome(s):

1. Students will demonstrate basic knowledge and operational skills associated with various technologies and equipment utilized in the production and post production of professional video programs.
2. Students will acquire sufficient knowledge and understanding of the various aspects and crew positions associated with producing professional television programs, so as to be able to effectively assess the technical and personnel requirements for a production, coordinate the necessary resources and successfully execute the plan as either an individual or a member of a production team.
3. Students will demonstrate critical thinking by reviewing and critiquing past and current movies and TV shows to assess their strengths and weakness from the point of view of the media consumer.

Required Core Courses:		**Units:**	**24**
DM 100	Introduction to Electronic Media: TV, Radio, Film, and the Internet	3	
DM 112	Introduction to Video Editing and Postproduction	3	
DM 115A	Single-Camera Production and Editing	3	
DM 140	Cinematography	3	
CMSD 121	Introduction to Reporting and Newswriting	3	
DM 130	Broadcasting for New & Sports	3	
DM 230A	Beginning News & Sports Production	3	
DM 230B	Intermediate News & Sports Production	3	
		Total:	**24**

Screenwriting: Certificate of Achievement *(Transcripted)*

Program code: SAC.DMSW.CA

Program Control Number: 10660

Emphasis on learning writing skills for the development of such television programming as sitcoms, talk shows, news and documentaries, musical variety shows, game shows and soaps, as well as commercials, corporate videos and web programs.

Learning Outcome(s):

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

1. Students will demonstrate basic knowledge and operational skills associated with various technologies and software utilized in screenwriting.
2. Students will acquire sufficient knowledge and understanding of a writers' room and positions associated with producing professional television scripts as either an individual or a member of a writing team.
3. Students will demonstrate critical thinking by reviewing and critiquing past and current movies and TV scripts to assess their strengths and weakness from the point of view of the writer.:

Required Core Courses:		**Units:**	**9**
DM100	Introduction to Electronic Media: TV, Radio, Film, and the Internet	3	
DM112	Introduction to Video Editing and Postproduction	3	
DM130	Broadcasting for News & Sports	3	

Required Courses		Units:	12
DM120	Beginning Screenwriting for Digital Media	3	
DM121	Intermediate Screenwriting for Digital Media	3	
DM123	Advanced Screenwriting for Digital Media	3	
DM240	Agency Film Production	3	
Plus, select 3 units from the following courses:		**Units:**	**1-6**
DM103	History of Film to 1945	3	
–OR–			
DM104	History of Film from 1945 to Present	3	
–OR–			
DM115A	Single-Camera Production and Editing	3	
–OR–			
DM125	Cooperative Work Experience- Occupational	1 - 6	
–OR–			
DM230A	Beginning News & Sports Production	3	
–OR–			
CMSD105	Mass Media and Society	3	
–OR–			
CMSD105H	Honors Mass Media and Society	3	
		Total:	**22-27**

Television Production: Certificate of Achievement

(Transcripted)

Program code: SAC.DMTP.CA

Program Control Number: 10658

Emphasis on orientation with studio and field equipment, production planning, program directing, and post-production process.

Learning Outcome(s):

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

1. Demonstrate basic knowledge and operational skills associated with various technologies and equipment utilized in the production and post production of professional video programs.
2. Acquire sufficient knowledge of the various aspects and crew positions associated with producing professional television programs.
3. Demonstrate critical thinking by reviewing and critiquing past and current movies and TV shows to assess their strengths and weakness from the point of view of the media consumer.
4. Assess the technical and personnel requirements for a production, and coordinate the necessary resources.

Required Core Courses:		Units	12
DM100	Introduction to Electronic Media: TV, Radio, Film, and the Internet	3	
DM112	Introduction to Video Editing and Postproduction	3	
DM115A	Single-Camera Production and Editing	3	
DM140	Cinematography	3	
Required Courses:		**Units**	**9**
DM110	Introduction to Television Production	3	
DM120	Beginning Screenwriting for Digital Media	3	
DM215	Advanced Single-Camera/Digital Cinema Production	3	
		Total:	**21**

EARTH SCIENCE

Earth Science Degree: AA

Program code: SAC.ES.AA

Program Control Number: 31980

The Associate degree curriculum in Earth Science prepares students to transfer to a four-year institution leading to a baccalaureate degree in Earth Sciences or Geology. Please consult a SAC counselor for information about course requirements for particular four-year institutions. A baccalaureate degree in Earth Sciences may provide the recommended content preparation for students interested in teaching science at the middle school level or are planning to go to law school in the area of Environmental Law or Public Policy. Students may also gain necessary opportunities with Geotechnical or Environmental consulting firms or with government agencies such as the National Park Service.

Learning Outcome(s):

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

1. Students will demonstrate proficiency and knowledge with regards to the physical structure of the Earth through the paradigm of plate tectonics.
2. Students will demonstrate proficiency and knowledge regarding the operations and interrelations of Earth systems.

Required Core Courses:		Units:	22
ASTR 110	Introduction to Stars and Galaxies	3	
ASTR 140	Astronomy Laboratory	1	
CHEM 209	Introductory Chemistry	4	
–OR–			
PSC 115	Concepts in Physical Science for Educators*	4	
–OR–			
CHEM 115	Concepts in Physical Sciences for Educators*	4	
ERTH 115	Earth Science for Educators*	4	
–OR–			
GEOL 101	Introduction to Geology	3	
–AND–			
GEOL 101L	Introduction to Geology Laboratory	1	
GEOL 140	Environmental Geology	3	
GEOL 150	Introduction to Oceanography	3	
–OR–			
GEOL 150H	Honors Introduction to Oceanography	3	
GEOL 201	Introduction to Historical Geology		
Electives		**Units:**	**2**
GEOL 112	Earthquakes	1	
–OR–			
GEOL 162	Geologic Field Studies of the Mojave Desert	1	
–OR–			
GEOL 164	Geologic Field Studies of the Eastern Sierra Nevada	2	
–OR–			
GEOL 168	Geologic Field Studies of the Owens Valley	1	
–OR–			
GEOL 169	Geologic Field Studies of San Diego County	1	
–OR–			
GEOL 170	Geologic Field Studies of the Anza-Borrego Desert State Park	1	
–OR–			
GEOL 171	Geology Field Studies of Sequoia and Kings Canyon National Parks	1	
–OR–			

GEOL 172	Geologic Field Studies of the California Coast	2
–OR–		
GEOL 173	Geologic Field Studies of Death Valley	1
–OR–		
GEOL 174	Geologic Field Studies of Joshua Tree National Park	1

*Recommended course for those preparing to teach middle school science.

Total: 24

ECONOMICS

Economics Degree: AA

Program code: SAC.ECON.AA

Program Control Number: 04256

The associate degreecurriculum in economics is a program of basic courses which enable students to move into a curriculum in a four-year institution leading to a baccalaureate degree. Economics prepares the student for a number of career opportunities such as accounting and marketing in the areas of business, government and teaching.

Learning Outcome(s):

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

Students will communicate using basic economic terminology, interpret relevant economic data, and follow and construct fundamental economic arguments

1. Students will define and explain the fundamental economic problem of scarcity and its consequences relating to opportunity cost and marginal decision-making of individuals, firms, and society
2. Students will use the basic tools of economic modeling and graphing to evaluate the market system, to increase the efficiency of resource allocation, and to predict changes within the market and economy.

Required Core Courses:		**Units:**
ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
ECON 120	Principles/Macro	3
ECON 121	Principles/Micro	3
BUS 150	Introduction to Computing and Application Software	3
–OR–		
MATH 145	Finite Mathematics	4
MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4
Recommended electives:		
BUS 101	Business Law	3
BUS 120	Principles of Management	3

Total: 21-22

Economics Degree for Transfer: AA-T

Program code: SAC.ECON.AAT

Program Control Number: 35555

The Associate in Arts in Economics for Transfer (AA-T in Economics) prepares students to move into the CSU system leading to a baccalaureate degree in Economics. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Arts in Economics for Transfer (AA-T in Economics) also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU.

See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees. Upon completion of the Associate in Arts in Economics for Transfer (AA-T in Economics), students will have demonstrated a general understanding of the academic standards expected of majors in the economic discipline.

The program strives to motivate students to strengthen their problem solving, analytical reasoning, critical thinking and communication skills that will assist them in their further studies and careers. The program further aims to develop marketable students that are responsible citizens aware of and informed about the variety of differing views on current economic events and policy issues and how they impact our lives.

Learning Outcome(s):

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

1. Students who complete an AAT in Economics will:

a. Utilize microeconomic or macroeconomic theory to analyze a specific economic scenario.

b. Utilize data to gain insight into a specific economic relationship.

c. Utilize economic history and/or the history of economic ideas to inform a comprehensive understanding of a current economic perspective or event.

Required Core Courses:		**Units:**	**14**
ECON 120	Principles/Macro	3	
–AND–			
ECON 121	Principles/Micro	3	
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
–OR–			
PSYC 210	Statistics for the Behavioral Sciences	4	
–OR–			
MATH 150	Calculus for Biological, Management and Social Sciences	4	
–OR–			
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
LIST A: Select one		**Units:**	**3-5**
MATH 140	College Algebra	4	
–OR–			
MATH 145	Finite Mathematics	4	
–OR–			
MATH 162	Trigonometry	4	
–OR–			
MATH 170	Pre-Calculus Mathematics	4	
–OR–			
MATH 185	Single Variable Calculus II	4	
–OR–			
MATH 287	Introduction to Linear Algebra and Differential Equations	5	
–OR–			
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
–OR–			
ENGL 103	Critical Thinking and Writing	4	
–OR–			

ENGL 103H	Honors Critical Thinking and Writing	4
–OR–		
PHIL 110	Critical Thinking	4
–OR–		
PHIL 110H	Honors Critical Thinking	4
–OR–		
BUS 105	Legal Environment of Business	3
–OR–		
BUS 150	Introduction to Information Systems and Applications	3
–OR–		
BUS 222	Business Writing	3
–OR–		
CMST 140	Argumentation and Debate	3
–OR–		
ACCT 101	Financial Accounting	4
–OR–		
ACCT 102	Managerial Accounting	4

LIST B: Select one course (4 units)

Any course not used in list A		**Units: 4**
MATH 280	Intermediate Calculus	4

Total: 20-23

EDUCATION

Elementary Education (Pre-Professional) Degree: AA

Program code: SAC.EDUPP.AA

Program Control Number: 17761

The Associate of Arts degree in Elementary Education (Pre-Professional) is designed to prepare students for transfer to a four-year university to obtain a bachelor's degree and multiple subject teaching credential. Completion of the courses in this degree will partially satisfy requirements for the California State University integrated and traditional teacher preparation programs. The courses are part of the curriculum that can be started at the community college and completed at the university. The curriculum is designed for students who seek the pre-professional subject matter preparation for elementary school teaching consistent with the standards established by the California Commission on Teacher Credentialing. Additionally, the degree curriculum may also serve as preparation for paraprofessional positions in the K-12 classroom setting by satisfying unit requirements as established by law.

Students interested in becoming a K-12 teacher should visit the Center for Teacher Education at SAC (Located in the Counseling Center - Room S-110).

Learning Outcome(s):

1. Identify elements of diversity and diverse learning styles in student populations and discover how teachers and schools can promote learning for all students
2. Demonstrate proficiency in 14 content areas required for subject matter competency for elementary teachers

Required Core Courses:		**Units: 22-23**
EDUC 201	Introduction to Education	3
CDEV 107	Child Growth and Development (DS1)	3
–OR–		
PSYC 157	Introduction to Child Psychology	3
BIOL 115	Concepts in Biology for Educators	4
–OR–		
ERTH 115	Earth Science for Educators	4
–OR–		
PSC 115	Concepts in Physical Sciences for Educators	4
–OR–		
CHEM 115	Concepts in Physical Sciences for Educators	4
MATH 105	Mathematics for Liberal Arts Students	3
–OR–		
MATH 204	Mathematical Concepts for Elementary School Teachers	4
ENGL 270	Children's Literature	3
HIST 120	The United States to 1865	3
–OR–		
HIST 120H	Honors The United States to 1865	3
–OR–		
HIST 118	Social and Cultural History of the United States	3
–OR–		
POLT 101	Introduction to American Governments	3
–OR–		
POLT 101H	Honors Introduction to American Governments	3
–OR–		
GEOG 100	World Regional Geography	3
–OR–		
GEOG 100H	Honors World Regional Geography	3
ART 100	Introduction to Art Concepts OR	3
–OR–		
ART 100H	Honors Introduction to Art Concepts	3
–OR–		
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3
–OR–		
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3
–OR–		
DNCE 100	Dance History and Appreciation	3
–OR–		
DNCE 100H	Honors Dance History and Appreciation	3
–OR–		
DNCE 102	Introduction to Dance Forms	3
–OR–		
MUS 101	Music Appreciation	3
–OR–		
MUS 101H	Honors Music Appreciation	3
–OR–		
THEA 100	Introduction to Theatre	3
And ONE of the Following:		**Units: 3**
CMST 102	Public Speaking	3
IDS 200	Introduction to Liberal Studies	3
ENGL 206	Introduction to Language Structure and Use	3
ANTH 104	Language and Culture	3
–OR–		
ENGL 104	Language and Culture	3
–OR–		
ANTH 104H	Honors Language and Culture	3
–OR–		
ENGL 104H	Honors Language and Culture	3
HIST 133	History of California	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 205	Introduction to Children with Special Needs	3
EDUC 205	Personal Proficiency in Educational Technologies for Elementary Teachers	3

Total: 25-26

Elementary Teacher Education Degree for Transfer: AA-T

Program code: SAC.ETED.AAT

Program Control Number: 31887

The Associate in Arts in Elementary Teacher Education for Transfer (AA-T in Elementary Teacher Education) prepares students to transfer into the CSU system to complete a baccalaureate degree in Liberal Studies and into a multiple subject teaching credential program. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Arts in Elementary Teacher Education for Transfer (AA-T in Elementary Teacher Education) degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Liberal Studies major. **See page 29** **for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the Associate in Arts in Elementary Teacher Education for Transfer (AA-T in Elementary Teacher Education), 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.

Learning Outcome(s):

1. Identify elements of diversity and diverse learning styles in student populations and discover how teachers and schools can promote learning for all students
2. Demonstrate proficiency in 14 content areas required for subject matter competency for elementary teachers

Required Core Courses:		**Units:**	**45**
EDUC 201	Introduction to Education	3	
ERTH 115	Earth Science for Educators	4	
–OR–			
GEOL 101	Introduction to Geology	3	
–AND–			
GEOL 101L	Introduction to Geology Laboratory	1	
CMST 102	Public Speaking	3	
ENGL 101	Freshman Composition	4	
–OR–			
ENGL 101H	Honors Freshman Composition	4	
CHEM 115	Concepts in Physical Sciences for Educators	4	
–OR–			
PSC 115	Concepts in Physical Sciences for Educators	4	
BIOL 115	Concepts in Biology for Educators	4	
–OR–			
BIOL 109	Fundamentals of Biology	3	
–AND–			
BIOL 109L	Fundamentals of Biology Laboratory	1	
MATH 204	Mathematical Concepts for Elementary School Teachers	4	
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
GEOG 100	World Regional Geography	3	
–OR–			
GEOG 100H	Honors World Regional Geography	3	
POLT 101	Introduction to American Governments	3	
–OR–			
POLT 101H	Honors Introduction to American Governments	3	
HIST 120	The United States to 1865	3	
–OR–			
HIST 120H	Honors The United States to 1865	3	
CDEV 107	Child Growth and Development (DS1)	3	
–OR–			
PSYC 157	Introduction to Child Psychology	3	
List A - Select one course (4 units)		**Units:**	**4**
ENGL 103	Critical Thinking and Writing	4	
ENGL 103H	Honors Critical Thinking and Writing	4	
PHIL 110	Critical Thinking	4	
PHIL 110H	Honors Critical Thinking	4	
List B - Select one course (3 units)		**Units:**	**3**
ART 100	Introduction to Art Concepts	3	
–OR–			
ART 100H	Honors Introduction to Art Concepts	3	
DNCE 100	Dance History and Appreciation	3	
–OR–			
DNCE 100H	Honors Dance History and Appreciation	3	
DNCE 102	Introduction to Dance Forms	3	
MUS 101	Music Appreciation	3	
–OR–			
MUS 101H	Honors Music Appreciation	3	
THEA 100	Introduction to Theatre	3	
List C - Select 6 units from courses below or from any course(s) not taken above		**Units:**	**6**
ANTH 104	Language and Culture	3	
–OR–			
ANTH 104H	Honors Language and Culture	3	
EDUC 205	Personal Proficiency in Educational Technologies for Elementary Teachers	3	
EDUC 204	Personal Proficiency in Educational Technologies for Secondary Teachers	3	
ENGL 104	Language and Culture	3	
–OR–			
ENGL 104H	Honors Language and Culture	3	
ENGL 231	Survey of English Literature I	3	
ENGL 232	Survey of English Literature II	3	
ENGL 241	Survey of American Literature 1600-1865	3	
ENGL 242	Survey of American Literature, 1865-Present	3	
ENGL 270	Children's Literature	3	
ENGL 271	Survey of World Literature I	3	
ENGL 272	Survey of World Literature II	3	
ETHN 101	Introduction to Ethnic Studies	3	
–OR–			
ETHN 101H	Honors Introduction to Ethnic Studies	3	
GEOG 102	Cultural Geography	3	
IDS 200	Introduction to Liberal Studies	3	
PHIL 106	Introduction to Philosophy	3	
–OR–			
PHIL 106H	Honors Introduction to Philosophy	3	
PHIL 108	Ethics	3	
PHIL 112	World Religions	3	
		Total:	**58**

After School Program Assistant Certificate of Proficiency *(Untranscripted)*

Program code: SAC.EDUCT.CERT

The After School Program Assistant Certificate is intended to prepare a student in the position requiring practical skills and knowledge to work with K-12 children in an after school care, tutoring, or mentoring program. It will also orient students toward further opportunities in higher education.

Learning Outcome(s):

1. Demonstrate knowledge of the practical skills and requirements to work at an entry-level with children, assisting a teacher, in an after-school care, tutoring, or mentoring program.

Required Core Courses:		Units:
EDUC 113	Tutoring Reading in Elementary Schools	1
CNSL 114	Careers in Teaching	1
–OR–		
CDEV 114	Careers in Teaching	1
CDEV 107	Child Growth and Development (DS1)	3
EDUC 120A	Development of the School-Age Child	3
–OR–		
CDEV 120A	Development of the School-Age Child (DS5)	3
EDUC 120B	School-Age Child Care and Recreation Activities	3
–OR–		
CDEV 120B	School-Age Child Care and Recreation Activities (DS5)	3
	Total:	**11**

After School Program Associate Teacher: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.EDUCT.CERT

The After School Program Associate Teacher Certificate is intended to provide students with skills necessary to work with K-12 students in an after-school setting, provide tutoring or homework assistance, or assist in academic enrichment programs.

Completion of the required courses for this certificate plus 50 days of field experience (minimum of 3 hours per day) can qualify you for the California Child Development Associate Teacher Permit with a school-age emphasis. Contact Career Technical Education (CTE) or Center for Teacher Education counselors at SAC for additional assistance in planning your School-Age profession.

Learning Outcome(s):

1. Demonstrate the advanced skills necessary to work with students in an after school program setting that includes knowledge of academic support/enrichment and activity programming.

Required Core Courses:		Units:
EDUC 113	Tutoring Reading in Elementary Schools	1
CNSL 114	Careers in Teaching	1
–OR–		
CDEV 114	Careers in Teaching	1
CDEV 107	Child Growth and Development (DS1)	3
–OR–		
PSYC 157	Introduction to Child Psychology	3
CDEV 110	Child, Family, and Community (DS2)	3
CDEV 205	Introduction to Children with Special Needs	3
DNCE 102	Introduction to Dance Forms	3
–OR–		
CMST 102	Public Speaking	3
CDEV 120B	School-Age Child Care and Recreation Activities (DS5)	3
–OR–		
EDUC 120B	School-Age Child Care and Recreation Activities	3
	Total:	**17**

ENGINEERING

Civil Drafting and Design Degree: AS

Program code: SAC.ENRCE.AS

Program Control Number: 04212

This program prepares students for employment as a CIVIL ENGINEERING DRAFTER or DESIGNER, or in the architecture or construction fields. Civil drafters create detailed technical drawings of buildings, structures, and various construction projects designed by architects and civil engineers. Civil drafters must be proficient in CAD software commonly used in industry (AutoCAD, Civil 3D, REVIT) and have knowledge of current industry drafting practices. Employment is available in private industry and at local and county government agencies.

The skills learned in this program are also essential job skills for engineers and architects, so students pursuing these areas are also encouraged to take this coursework as well. Many of these job skills courses may not be available at the university, and others may be transferrable to the university.

Students may also wish to take: Engr 118, 119 (surveying).

Learning Outcome(s):

1. Select and develop engineering careers
2. Read and produce civil engineering drawings that meet industry standards
3. Use a variety of CAD software standard for the civil engineering field

The associates degree also requires completion of general education coursework per Plans A, B, or C of the college catalog

Required Core Courses:		Units:	25-26
ENGR 100A	Introduction to Engineering	3	
–OR–			
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2	
ENGR 122	Engineering Drawing	3	
–OR–			
ENGR 125	Engineering Graphics	3	
ENGR 142	Civil Drafting	4	
ENGR 183	AutoCAD I	4	
ENGR 184	AutoCAD II	4	
ENGR 185	Civil 3D	4	
ENGR 154	Revit	4	
		Total: 25-26	

Civil Engineering Technology Degree: AS

Program code: SAC.ENRCT.AS

Program Control Number: 04202

This program prepares students for employment as a CIVIL ENGINEERING TECHNICIAN. Civil engineering technicians help civil engineers to plan, design, and build various infrastructure projects (e.g., highways, bridges, utilities, etc.) as well as commercial, industrial, residential, and land development projects. Civil engineering technicians work in offices and at jobsites, assisting engineers and surveyors. Activities include reviewing blueprints, preparing maps and proposals, testing, and data collection/reporting. Employment is available in private industry and at local and county government agencies.

The skills learned in this program are also essential job skills for civil engineers and architects, so transfer students are encouraged to take this coursework as well. Some of the courses in the program may articulate to university engineering or engineering technology programs. Note that many university engineering programs may not have these job skills courses as part of their regular curriculum.

Learning Outcome(s):

1. Select and develop engineering careers
2. Use CAD software to produce models and technical drawings that conform to industry standards
3. Use common land surveying instruments

The associates degree also requires completion of general education coursework per Plans A, B, or C of the college catalog.

Required Core Courses:		**Units: 31-32**
ENGR 100A	Introduction to Engineering	3
–OR–		
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2
ENGR 122	Engineering Drawing	3
–OR–		
ENGR 125	Engineering Graphics	3
ENGR 183	AutoCAD I	4
ENGR 184	AutoCAD II	4
ENGR 185	Civil 3D	4
ENGR 118	Surveying	3
ENGR 119	Advanced Plane Surveying	3
GEOL 101	Introduction to Geology	3
GEOL 101L	Introduction to Geology Laboratory	1
MATH 162	Trigonometry	4
		Total: 31-32

Engineering Degree: AS

Program code: SAC.ENGR.AS

Program Control Number: 04201

This associate degree curriculum provides a basic program of engineering coursework for students planning to transfer to a university engineering program. The program includes common lower- division engineering courses and also the foundational science and mathematics coursework required for most engineering majors. While the program reflects a typical lower division university engineering curriculum, it may not fully satisfy lower-division requirements at all engineering university programs. Thus, students should communicate with their desired university to determine the required coursework to transfer with upper-division status. Transfer students are also advised to take job skills courses to improve their employability.

Suggested job skill courses depend on major:

Mechanical engineering majors – ENGR 131, 132, 133, 134, 135, 103, 104, 105, 130A, 130B, 125, 124, 114, and 158.

1. Civil engineering majors – ENGR 183, 184, 185, 142, 118, and 119.
2. Electrical engineering majors – ENGR 131, 133, 250, and 250L; CMPR 120, 121.

The program may also provide the necessary background for employment as a drafter, designer, or engineering technician. However, in these cases, students are advised to also pursue associate degrees or certificates in the appropriate career education areas to improve their employability.

For instance, drafter employment may require coursework in drafting, design, and CAD, and a drafting degree or certificate. Engineering technician employment may require coursework in engineering technology, and a degree or certificate in this area.

Students must take coursework from the block of courses below labeled "engineering or engineering-related courses". The courses selected should be based on major:

For mechanical engineering majors: ENGR 235, 240, 250, 250L, 125, 103 (or 130A)

For civil engineering majors: ENGR 235, 240, 125, 183;

For electrical engineering majors: ENGR 250, 250L, 183; CMPR 120, 121

Learning Outcome(s):

1. Select and prepare for engineering careers
2. Demonstrate aptitude in foundational math and science topics
3. Solve engineering problems of common lower division engineering courses

Required Core Courses:

Engineering and engineering-related courses (take at least 9 units):

Units:	9-11	
ENGR 100A	Introduction to Engineering	3
ENGR 125	Engineering Graphics	3
ENGR 103	Solidworks Basic Solid Modeling	3
ENGR 130A	CATIA Beginning Solid Modeling	3
ENGR 183	AutoCAD I	4
ENGR 235	Statics	3
ENGR 240	Dynamics	3
ENGR 250	Electric Circuits	3
ENGR 250L	Electric Circuits Laboratory	1
ENGR 281	Properties of Engineering Materials	3
CMPR 120	Introduction to Programming	3
CMPR 121	Programming Concepts	3
Science and math courses:		**Units: 21**
MATH 180	Single Variable Calculus I	4
–OR–		
MATH 180H	Honors Single Variable Calculus I	4
MATH 185	Single Variable Calculus II	4
PHYS 217	Engineering Physics I	4
PHYS 227	Engineering Physics II	4
–OR–		
PHYS 237	Engineering Physics III	4
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5

The associate degree also requires completion of general education coursework per Plans A, B, or C of the college catalog.

Total: 30-32

Engineering Computer Aided Drafting and Design Degree: AS

Program code: SAC.ENRCA.AS

Program Control Number: 08720

This program prepares students for employment as a COMPUTER-AIDED DESIGN (CAD) DRAFTER in either the MECHANICAL or CIVIL areas. The program focuses strongly on CAD software skills and has two options: (1) MECHANICAL or (2) CIVIL. Each option focuses on the industry-standard CAD software for its respective area. The mechanical option focuses on Solidworks and CATIA. The civil option focuses on AutoCAD, Civil 3D, and REVIT.

Students may also wish to take: Engr 105, 106 (for mechanical), or 118, 119 (for civil).

Learning Outcome(s):

1. Use CAD software to produce models and technical drawings that conform to industry standards
2. Use CAD software for the respective field

The associate degree also requires completion general education coursework per Plans A, B, or C of the college catalog.

Required Core Courses:		**Units:**	**5-6**
ENGR 100A	Introduction to Engineering	3	
–OR–			
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2	
ENGR 122	Engineering Drawing	3	
–OR–			
ENGR 125	Engineering Graphics	3	
Select the mechanical or civil option		**Units:**	**18-20**
Mechanical option			
ENGR 103	Solidworks Basic Solid Modeling	3	
ENGR 104	Solidworks Intermediate Solid Modeling	3	
ENGR 105	Solidworks Advanced Solid Modeling	3	
ENGR 130A	CATIA Beginning Solid Modeling	3	
ENGR 130B	CATIA Intermediate Solid Modeling	3	
ENGR 124	Advanced Mechanical Drafting and Design	3	
Civil option			
ENGR 183	AutoCAD I	4	
ENGR 184	AutoCAD II	4	
ENGR 185	Civil 3D	4	
ENGR 142	Civil Drafting	4	
ENGR 154	Revit	4	
		Total:	**23-26**

Mechanical Drafting and Design Degree: AS

Program code: SAC.ENRDD.AS

Program Control Number: 04203

This program prepares students for employment as a MECHANICAL ENGINEERING DRAFTER or DESIGNER. Mechanical drafters use MCAD (mechanical computer-aided drafting/design) software to create solid models and then detailed technical drawings of machinery or mechanical devices produced by engineers. Mechanical drafters must be proficient in parametric MCAD software and have knowledge of current industry drafting practices. Designers are typically drafters with additional industry experience and training. Designers take generic designs from engineers and add detail to them (e.g., material and fastener selection) using MCAD. Employment is primarily in the private industries such as aerospace, biomedical, industrial, and other manufacturing industries.

The skills learned in this program are also essential job skills for ENGINEERS, so transfer students are also encouraged to take this coursework. It should be noted that many of these job skills courses may not be available at the university, and others may be transferable to the university.

Students may also wish to take ENGR 133 (basic mechatronics), ENGR 105 (advanced Solidworks), ENGR 106 (Solidworks drawings), and MATH 160 (trigonometry).

Learning Outcome(s):

1. Transform 3-dimensional bodies into 2-dimensional drawing views
2. Produce models and technical drawings that conform to industry standards
3. Use a variety of mechanical engineering CAD software

The associate degree also requires completion of general education coursework per Plans A, B, or C of the college catalog.

Required Core Courses:		**Units:**	**27.5**
ENGR 100A	Introduction to Engineering	3	
ENGR 122	Engineering Drawing	3	
–OR–			
ENGR 125	Engineering Graphics	3	
ENGR 124	Advanced Mechanical Drafting and Design	3	
ENGR 103	Solidworks Basic Solid Modeling	3	
ENGR 104	Solidworks Intermediate Solid Modeling	3	
ENGR 130A	CATIA Beginning Solid Modeling	3	
ENGR 130B	CATIA Intermediate Solid Modeling	3	
ENGR 114	Geometric Dimensioning and Tolerancing	3	
ENGR 158	Basic Machining Concepts and Operations	3	
ENGR 131	Introduction to Mechatronics	0.5	
		Total:	**27.5**

Mechatronics Degree: AS

Program code: SAC.ENEMT.AS

Program Control Number: 08711

This program prepares students for employment as a MECHANICAL ENGINEERING TECHNICIAN or as an engineering technician in the related areas of electro-mechanical, aerospace, industrial, or manufacturing. The program specializes in training in the design, fabrication, and testing of mechatronics systems – mechanical systems controlled with electronics or computer technology. The program emphasizes hands-on learning and covers: modern fabrication techniques (3D printing or FDM, stereolithography SLA, laser cutting/engraving, machining and G-code, CNC processes), control systems (using micro-controllers like Arduino; PID control), using various sensors, and control of various motors and actuators (servo, DC, brushless DC, stepper, and pneumatics).

Employment is mainly in private manufacturing industries such as the mechanical, industrial, biomedical, or aerospace areas.

The skills learned in this program are also essential job skills for ENGINEERS, so transfer students are also encouraged to take this coursework. It should be noted that many of these job skills courses may not be available at the university, and others may be transferable to the university.

Students may also wish to take CMPR 120 (Programming) and WELD 108 (Welding).

Learning Outcome(s):

1. Design and fabricate mechatronics systems
2. Use and program micro-controllers to control various actuators
3. Fabricate parts using various rapid prototyping equipment

The associate degree also requires completion of general education coursework per Plans A, B, or C of the college catalog.

Required Core Courses:		**Units:**	**24**
ENGR 100A	Introduction to Engineering	3	
ENGR 122	Engineering Drawing	3	
–OR–			
ENGR 125	Engineering Graphics	3	
ENGR 103	Solidworks Basic Solid Modeling	3	
–OR–			
ENGR 130A	CATIA Beginning Solid Modeling	3	
ENGR 131	Introduction to Mechatronics	0.5	
ENGR 132	Introduction to Robotics	2.5	
ENGR 133	Basic Mechatronics	3	
ENGR 134	Intermediate Mechatronics	3	
ENGR 135	Advanced Mechatronics	3	
ENGR 158	Basic Machining Concepts and Operations	3	
		Total:	**24**

Civil Drafting and Design: Certificate of Achievement *(Transcripted)*

Program code: SAC.ENRCE.CA

Program Control Number: 21775

This program prepares students for employment as a CIVIL ENGINEERING DRAFTER or DESIGNER in the CIVIL ENGINEERING, architecture, or construction fields. Civil drafters create detailed technical drawings of buildings, structures, and various construction projects designed by architects and civil engineers. Civil drafters must be proficient in CAD software commonly used in industry (AutoCAD, Civil 3D, REVIT) and have knowledge of current industry drafting practices. Employment is available in private industry and at local and county government agencies.

The skills learned in this program are also essential job skills for civil engineers and architects, so transfer students are encouraged to take this coursework as well. Some of the courses in the program may articulate to university engineering or engineering technology programs. It should be noted that many university engineering programs may not have these job skills courses as part of their regular curriculum.

Learning Outcome(s):

1. Select and develop engineering careers
2. Read and produce civil engineering drawings that meet industry standards
3. Use a variety of CAD software standard for the civil engineering field

Required Core Courses:		**Units: 25-26**
ENGR 100A	Introduction to Engineering	3
–OR–		
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2
ENGR 122	Engineering Drawing	3
–OR–		
ENGR 125	Engineering Graphics	3
ENGR 142	Civil Drafting	4
ENGR 183	AutoCAD I	4
ENGR 184	AutoCAD II	4
ENGR 185	Civil 3D	4
ENGR 154	Revit	4
		Total: 25-26

Civil Engineering Technology: Certificate of Achievement *(Transcripted)*

Program code: SAC.ENRCT.CA

Program Control Number: 21766

This program prepares students for employment as a CIVIL ENGINEERING TECHNICIAN. Civil engineering technicians help civil engineers to plan, design, and build various infrastructure projects (e.g., highways, bridges, utilities, etc.) as well as commercial, industrial, residential, and land development projects. Civil engineering technicians work in offices and at jobsites, assisting engineers and surveyors. Activities include reviewing blueprints, preparing maps and proposals, testing, and data collection/reporting. Employment is available in private industry and at local and county government agencies.

The skills learned in this program are also essential job skills for civil engineers and architects, so transfer students are encouraged to take this coursework as well. Some of the courses in the program may articulate to university engineering or engineering technology programs. Note that many university engineering programs may not have these job skills courses as part of their regular curriculum.

Learning Outcome(s):

1. Select and develop engineering careers
2. Use civil CAD software to do basic drafting and design
3. Use common land surveying instruments.

Required Core Courses:		**Units: 31-32**
ENGR 100A	Introduction to Engineering	3
–OR–		
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2
ENGR 122	Engineering Drawing	3
–OR–		
ENGR 125	Engineering Graphics	3
ENGR 183	AutoCAD I	4
ENGR 184	AutoCAD II	4
ENGR 185	Civil 3D	4
ENGR 118	Surveying	3
ENGR 119	Advanced Plane Surveying	3
GEOL 101	Introduction to Geology	3
GEOL 101L	Introduction to Geology Laboratory	1
MATH 162	Trigonometry	4
		Total: 31-32

Engineering Computer Aided Drafting and Design: Certificate of Achievement *(Transcripted)*

Program code: SAC.ENRCA.CA

Program Control Number: 21773

This program prepares students for employment as a COMPUTER-AIDED DESIGN (CAD) DRAFTER in either the MECHANICAL or CIVIL areas. The program focuses strongly on CAD software skills and has two options: (1) MECHANICAL or (2) CIVIL. Each option focuses on the industry-standard CAD software for its respective area. The mechanical option focuses on Solidworks and CATIA. The civil option focuses on AutoCAD, Civil 3D, and REVIT.

Learning Outcome(s):

1. Use CAD software to produce models and technical drawings that conform to industry standards

2. Use CAD software for the respective field

Required Core Courses:		**Units: 5-6**
ENGR 100A	Introduction to Engineering	3
–OR–		
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2
ENGR 122	Engineering Drawing	3
–OR–		
ENGR 125	Engineering Graphics	3
Select the mechanical option or the civil option		**Units: 18-20**
Mechanical option		
ENGR 103	Solidworks Basic Solid Modeling	3
ENGR 104	Solidworks Intermediate Solid Modeling	3
ENGR 105	Solidworks Advanced Solid Modeling	3
ENGR 130A	CATIA Beginning Solid Modeling	3
ENGR 130B	CATIA Intermediate Solid Modeling	3
ENGR 124	Advanced Mechanical Drafting and Design	3
Civil option		
ENGR 183	AutoCAD I	4
ENGR 184	AutoCAD II	4
ENGR 185	Civil 3D	4
ENGR 142	Civil Drafting	4
ENGR 154	Revit	4
		Total: 23-26

Mechanical Drafting and Design: Certificate of Achievement *(Transcripted)*

Program code: SAC.ENRDD.CA

Program Control Number: 21774

This program prepares students for employment as a MECHANICAL ENGINEERING DRAFTER or DESIGNER. Mechanical drafters use MCAD (mechanical computer-aided drafting/design) software to create solid models and then detailed technical drawings of machinery or mechanical devices produced by engineers. Mechanical drafters must be proficient in parametric MCAD software and have knowledge of current industry drafting practices. Designers are typically drafters with additional industry experience and training. Designers take generic designs from engineers and add detail to them (e.g., material and fastener selection) using MCAD. Employment is primarily in the private industries such as aerospace, biomedical, industrial, and other manufacturing industries.

The skills learned in this program are also essential job skills for ENGINEERS, so transfer students are also encouraged to take this coursework. It should be noted that many of these job skills courses may not be available at the university, and others may be transferable to the university.

Students may also wish to take ENGR 133 (basic mechatronics), ENGR 105 (advanced Solidworks), ENGR 106 (Solidworks drawings), and MATH 160 (trigonometry).

Learning Outcome(s):

1. Transform 3-dimensional bodies into 2-dimensional drawing views
2. Produce models and technical drawings that conform to industry standards
3. Use a variety of mechanical engineering CAD software

Required Core Courses:		**Units:**	**27.5**
ENGR 100A	Introduction to Engineering	3	
ENGR 122	Engineering Drawing	3	
–OR–			
ENGR 125	Engineering Graphics	3	
ENGR 124	Advanced Mechanical Drafting and Design	3	
ENGR 103	Solidworks Basic Solid Modeling	3	
ENGR 104	Solidworks Intermediate Solid Modeling	3	
ENGR 130A	CATIA Beginning Solid Modeling	3	
ENGR 130B	CATIA Intermediate Solid Modeling	3	
ENGR 114	Geometric Dimensioning and Tolerancing	3	
ENGR 158	Basic Machining Concepts and Operations	3	
ENGR 131	Introduction to Mechatronics	0.5	
		Total:	**27.5**

Mechatronics: Certificate of Achievement *(Transcripted)*

Program code: SAC.ENMT.CA

Program Control Number: 21776

This program prepares students for employment as a MECHANICAL ENGINEERING TECHNICIAN or as an engineering technician in the related areas of electro-mechanical, aerospace, industrial, or manufacturing. The program specializes in training in the design, fabrication, and testing of mechatronics systems – mechanical systems controlled with electronics or computer technology. The program emphasizes hands-on learning and covers: modern fabrication techniques (3D printing or FDM, stereolithography SLA, laser cutting/engraving, machining and G-code, CNC processes), control systems (using micro-controllers like Arduino; PID control), using various sensors, and control of various motors and actuators (servo, DC, brushless DC, stepper, and pneumatics).

Employment is mainly in private manufacturing industries such as the mechanical, industrial, biomedical, or aerospace areas.

The skills learned in this program are also essential job skills for ENGINEERS, so transfer students are also encouraged to take this coursework. It should be noted that many of these job skills courses may not be available at the university, and others may be transferable to the university.

Students may also wish to take CMPR 120 (programming) and WELD 108 (welding).

Learning Outcome(s):

1. Design and fabricate mechatronics systems
2. Use and program micro-controllers to control various actuators
3. Fabricate parts using various rapid prototyping equipment

Required Core Courses:		**Units:**	**24**
ENGR 100A	Introduction to Engineering	3	
ENGR 122	Engineering Drawing	3	
–OR–			
ENGR 125	Engineering Graphics	3	
ENGR 103	Solidworks Basic Solid Modeling	3	
–OR–			
ENGR 130A	CATIA Beginning Solid Modeling	3	
ENGR 131	Introduction to Mechatronics	0.5	
ENGR 132	Introduction to Robotics	2.5	
ENGR 133	Basic Mechatronics	3	
ENGR 134	Intermediate Mechatronics	3	
ENGR 135	Advanced Mechatronics	3	
ENGR 158	Basic Machining Concepts and Operations	3	
		Total:	**24**

3D CAD Skill Builder: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.3DCAD.CERT

This program is for students who have some amount of prior CAD experience and seek to learn 3D skills. Courses in this program prepare students for work in basic 3D or parametric 3D, or for further study in engineering majors.

Students will complete a series of 3D drawings or projects that indicate competency with 3D software for problem solutions.

Learning Outcome(s):

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

1. Students will complete a series of 3D drawings or projects that indicate competency with 3D software for problem solutions.

Required Core Courses:			
ENGR 103	Solidworks Basic Solid Modeling	3	
ENGR 154	AEC BIM with Revit	5	
ENGR 186	AutoCAD 3-Dimensional Drawing	3	
		Total:	**11**

AutoCAD 2D Basics: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.CAD2D.CERT

This program prepares students for entry level DRAFTER positions that require knowledge of AutoCAD, typically in the architectural, civil, construction, and industrial fields. Students will learn to create and edit technical drawings and annotate designs. The program may be completed in less than one year, and it provides a good first step to more advanced drafting technology coursework and programs.

Learning Outcome(s):

1. Effectively use AutoCAD software

Required Core Courses:		**Units:**	**10-11**
ENGR 100A	Introduction to Engineering	3	
–OR–			
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2	
ENGR 183	AutoCAD I	4	
ENGR 184	AutoCAD II	4	
		Total:	**10-11**

Mechanical 3D Solid Modeling CAD: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.ENGR3D.CERT

This program prepares students for employment as a MECHANICAL ENGINEERING DRAFTER or DESIGNER. Mechanical drafters use MCAD (mechanical computer-aided drafting/design) software to create solid models and then detailed technical drawings of machinery or mechanical devices designed by engineers. The program focuses on training students on industry-standard mechanical CAD (MCAD) software that is used heavily in the mechanical, aerospace, automotive, industrial, & biomedical engineering fields. Students learn to use the parametric nature of MCAD software to produce changeable models incorporating "design intent" and to produce drawings that conform to industry standards. The skills learned are applicable to drafters, designers, engineering technicians, and engineers in these fields.

Employment is primarily in the private manufacturing industries such as aerospace, biomedical, industrial, and many other manufacturing industries.

The skills learned in this program are also essential job skills for ENGINEERS, so transfer students are also encouraged to take this coursework. It should be noted that many of these job skills courses may not be available at the university, and others may be transferable to the university.

Learning Outcome(s):

1. Apply rules of orthographic projection to create multi-view drawings
2. Produce models and technical drawings that conform to industry standards
3. Effectively use Solidworks and CATIA software

Required Core Courses:		**Units:**	**15.5**
ENGR 103	Solidworks Basic Solid Modeling	3	
ENGR 104	Solidworks Intermediate Solid Modeling	3	
ENGR 130A	CATIA Beginning Solid Modeling	3	
ENGR 130B	CATIA Intermediate Solid Modeling	3	
ENGR 122	Engineering Drawing	3	
–OR–			
ENGR 125	Engineering Graphics	3	
ENGR 131	Introduction to Mechatronics	0.5	
		Total:	**15.5**

ENGLISH

English Degree: AA

Program code: SAC.ENGL.AA

Program Control Number: 04238

The associate degree curriculum in English is designed to develop proficiency in written communication and in the understanding of human nature through the study of language and literature. Completion of the A.A. degree in English prepares students to pursue upper-division studies as an English major focusing on literature, writing, criticism or other related fields.

Students wanting to pursue a career in law, politics, education, or communications often choose the A.A. degree in English because of the emphasis on close reading of texts, strategic employment of language, and strengthened writing skills the program promotes. Because the critical thinking and analytical skills developed as an English major are so versatile, students who may not be sure of their career and/or academic goals might want to consider it.

Learning Outcome(s):

1. Employ active reading and critical thinking skills to analyze, respond to, and evaluate various texts.
2. Use the writing process to develop polished compositions that align with the intended purpose and audience.
3. Use language, sentence structure, and punctuation effectively to convey the intended meaning and tone.
4. Locate both primary and secondary sources of information (using the web, the library, and the library databases) and evaluate them for credibility and accuracy.
5. Correctly integrate and document sources in MLA format to avoid plagiarism.
6. Demonstrate familiarity with major authors, works, genres, literary styles, and literary critical paradigms.

Required Core Courses:		**Units:**	**4**
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
Choose six units from these survey courses:			**6**
ENGL 231	Survey of English Literature I	3	
–OR–			
ENGL 232	Survey of English Literature II	3	
–OR–			
ENGL 241	Survey of American Literature 1600-1865	3	
–OR–			
ENGL 242	Survey of American Literature, 1865-Present	3	
–OR–			
ENGL 271	Survey of World Literature I	3	
–OR–			
ENGL 272	Survey of World Literature II	3	
Electives:			**9**

9 units of electives to be selected from any 200 or above English language or literature class including those above not taken as part of the 6-unit requirement. Note: Students planning to transfer to 4-year schools should consult with the English departments of those institutions and/or **assist.org** regarding specific lower-division requirements and unit limits.

Total: 19

English Degree for Transfer: AA-T

Program code: SAC.ENGL.AAT

Program Control Number: 32436

The Associate in Arts in English for Transfer (AA-T in English) prepares students to move into the CSU system leading to a baccalaureate degree in English. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree in English also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in English, students will have demonstrated a general understanding of the academic standards expected of readers and writers of the English language. They will be able to apply critical thinking skills in order to evaluate literary works for their artistic and literary merits as well as analyze them according to various interpretive theories and for the use of literary devices. Students will be able to produce correctly formatted, documented, and cited academic essays that utilize appropriately chosen sources in support of their arguments.

Learning Outcome(s):

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

1. Demonstrate the ability to read and analyze a text, not limited to written fiction.
2. Produce a college-level essay addressing the concerns of a given assignment.
3. Use appropriately chosen research material that is documented and cited correctly in MLA format.

Required Core Courses:

Option 1 (8 units) Option 2 (4 units)		**Units:**	**4-8**
Option 1: Select two (8 units)			
ENGL 103	Critical Thinking and Writing	4	
–OR–			
ENGL 103H	Honors Critical Thinking and Writing	4	
–AND–			
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
Option 2: Select two (4 units)			
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
LIST A: Select two (6 units)		**Units:**	**6**
ENGL 241	Survey of American Literature 1600-1865	3	
–OR–			
ENGL 242	Survey of American Literature, 1865-Present	3	
–OR–			
ENGL 231	Survey of English Literature I	3	
–OR–			
ENGL 232	Survey of English Literature II	3	
–OR–			
ENGL 271	Survey of World Literature I	3	
–OR–			
ENGL 272	Survey of World Literature II	3	
LIST B:		**Units:**	**6**

Select courses based on option chosen in Required Core Courses: Option 1: 3 units. Option 2: 6 units.

Any courses from LIST A not already used. Any English course articulated as lower division preparation in the English major at a CSU.

ENGL 213	Creative Writing	3
–OR–		
ENGL 220	Survey of the Bible as Literature	3
–OR–		
ENGL 233A	Shakespeare's Comedies and Romances	3
–OR–		
ENGL 233B	Shakespeare's Tragedies and History Plays	3
–OR–		
ENGL 233C	Shakespeare's Theatre	3
–OR–		
ENGL 243	The Modern American Novel	3
–OR–		
ENGL 245	The Image of African Americans in Literature and Films	3
–OR–		
ENGL 246	Survey of Chicano Literature	3
–OR–		
ENGL 270	Children's Literature	3
–OR–		
ENGL 278	Survey of Literature by Women	3
LIST C: Select one		**Units:** **3-5**
–OR–		
CHNS 101	Elementary Chinese I	5
–OR–		
CHNS 102	Elementary Chinese II	5
–OR–		
FREN 101	Elementary French I	5
–OR–		
FREN 102	Elementary French II	5
–OR–		
FREN 201	Intermediate French I	5
–OR–		
FREN 201H	Honors Intermediate French I	5
–OR–		
FREN 202	Intermediate French II	5
–OR–		
FREN 202H	Honors Intermediate French II	5
–OR–		
ITAL 120	Elementary Italian I	5
–OR–		
ITAL 121	Elementary Italian II	5
–OR–		
ASL 110	American Sign Language I	4
–OR–		
ASL 111	American Sign Language II	4
–OR–		
ASL 210	American Sign Language III	4
–OR–		
SPAN 101	Elementary Spanish I	5
–OR–		
SPAN 101H	Honors Elementary Spanish I	5
–OR–		
SPAN 102	Elementary Spanish II	5
–OR–		
SPAN 102H	Honors Elementary Spanish II	5
–OR–		
SPAN 201	Intermediate Spanish I	5
–OR–		
SPAN 201H	Honors Intermediate Spanish I	5
–OR–		
SPAN 202	Intermediate Spanish II	5

–OR–		
SPAN 202H	Honors Intermediate Spanish II	5
–OR–		
VIET 101	Elementary Vietnamese I	5
–OR–		
VIET 102	Elementary Vietnamese II	5
Any CSU transferable literature course offered in another department.		
CMSD 121	Introduction to Reporting and Newswriting	3
–OR–		
CMSD 110	Introduction to Creative Nonfiction	4
–OR–		
BUS 222	Business Writing	3
–OR–		
CMST 152	Oral Interpretation	3
–OR–		
THEA 100	Introduction to Theatre	3
	Total:	**19-25**

ENTREPRENEURSHIP

Entrepreneurship and Innovation Degree: AA

Program code: SAC.ENTEI.AA

Program Control Number: 08692

The associate degree in Entrepreneurship and Innovation is designed to give students a thorough understanding of the process of entrepreneurship. It is designed for those who have thought about starting their own ventures, as well as for those new to business. Students learn to develop and commercialize ideas for new ventures. Small business owners learn to develop resources to be more profitable and sustainable. Classes are practical and hands on. They provide real-world exposure to cutting-edge innovation and entrepreneurship. Specialized topics include: building a team, bootstrap marketing, finances and resources, opportunity assessment, design techniques, powerful presentations and more. Many classes are taught in "short sequence formats" of 4-8 weeks.

Learning Outcome(s):

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

1. Students will acquire the necessary knowledge to start their own businesses either as entrepreneurs or freelance independent contractors.

Required Core Courses:		**Units:**	**19**
ENTR 100	Introduction to Innovation and Entrepreneurship	3	
ENTR 101	Entrepreneurs and Success	1	
ENTR 102	Entrepreneurial Ideas and Creativity	1	
ENTR 103	Innovations and Opportunities	2	
ENTR 104	Business Models	2	
ENTR 105	Social Media, Bootstrapping, and Market Validation	2	
ENTR 106	Building an Entrepreneurial Team	2	
ENTR 107	Money, Finance and Accounting for Entrepreneurs	2	
ENTR 108	Business Plans for Entrepreneurs	2	
ENTR 109	Powerful Presentations	2	
Choose 1 elective from the following list:		**Units:**	**3**
ENTR 110	Capstone Business Simulations	3	
ENTR 111	Capstone Entrepreneurial Case Studies	3	
BUS 170	Principles of Small Business Management	3	
		Total:	**22**

Entrepreneurship and Innovation: Certificate of Achievement *(Transcripted)*

Program code: SAC.ENTEI.CA

Program Control Number: 21749

The certificate in Entrepreneurship and Innovation is designed to give students a thorough understanding of the process of entrepreneurship. It is designed for those who have thought about starting their own ventures, as well as for those new to business. Students learn to develop and commercialize ideas for new ventures. Small business owners learn to develop resources to be more profitable and sustainable. Classes are practical and hands on. They provide real-world exposure to cutting-edge innovation and entrepreneurship. Specialized topics include: building a team, bootstrap marketing, finances and resources, opportunity assessment, design techniques, powerful presentations and more. Many classes are taught in "short sequence formats" of 4-8 weeks.

Learning Outcome(s):

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

1. Students will acquire the necessary knowledge to start their own businesses either as entrepreneurs or freelance independent contractors.

Required Core Courses:		**Units:**	**19**
ENTR 100	Introduction to Innovation and Entrepreneurship	3	
ENTR 101	Entrepreneurs and Success	1	
ENTR 102	Entrepreneurial Ideas and Creativity	1	
ENTR 103	Innovations and Opportunities	2	
ENTR 104	Business Models	2	
ENTR 105	Social Media, Bootstrapping, and Market Validation	2	
ENTR 106	Building an Entrepreneurial Team	2	
ENTR 107	Money, Finance and Accounting for Entrepreneurs	2	
ENTR 108	Business Plans for Entrepreneurs	2	
ENTR 109	Powerful Presentations	2	
Choose 1 elective from the following list:		**Units:**	
ENTR 110	Capstone Business Simulations	3	
ENTR 111	Capstone Entrepreneurial Case Studies	3	
BUS 170	Principles of Small Business Management	3	
		Total:	**22**

Freelancer: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.FRLAN.CERT

The Freelancer certificate is designed to give all students, but especially non-business majors, a boot-camp understanding of business as applied to a freelance independent contractor. It is designed for new grads who want to freelance to start their careers, full-time workers who want to freelance to earn extra money or transition to a new career, laid-off workers, workers leaving full- time jobs, parents who want to freelance for a flexible schedule, people who want turn their hobbies into profitable freelance ventures, and seniors who freelance to supplement their incomes.

In the classes students learn how to plan and get started, personal and people skills, different business trades and industries, networking and opportunities, how to get and develop customers, where to get money, how to get paid and how to launch a new freelance business. Classes are short one-unit classes. The goal of the certificate is to teach, as quickly as possible, just what someone needs to know to survive in business as a freelancer.

Learning Outcome(s):

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

1. Students will demonstrate an understanding of the basic requirements to successfully start and run a small business as well as the ability to apply planning methods to business and entrepreneurial situations

Required Core Courses:		**Units:**	**6**
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1	
ENTR 121	People Skills for the Freelancer	1	
ENTR 122	Opportunities in Freelance Industries and Trades	1	
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1	
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1	
ENTR 125	Launch Your Freelance Business	1	
		Total:	**6**

ETHNIC STUDIES

Ethnic Studies Degree: AA

Program code: SAC.ETHN.AA

Program Control Number: 04255

The associate degree curriculum in ethnic studies is designed to foster individual cultural identity and cross-cultural communication, develop a consciousness about the American pluralistic society and its origins, and provide basic education regarding professional careers involving intercultural relations in fields such as arts, business education, government, health, law, public relations, and public service. Emphasis will be on a cultural survey of Native Americans, Asian Americans, African Americans and Mexican Americans/Latinos from the Pre-Columbian period to the present and the contributions of these ethnic groups to U.S. society. Enrichment and global perspective will be added to majors such as Art, Anthropology, Child Development, Dance, Education, English, Foreign Language, History, Music, Psychology and Sociology. Completion of the degree program prepares students to pursue a major leading to a baccalaureate degree.

Learning Outcome(s):

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

1. The ability to work effectively with increasingly diverse populations.
2. The capacity to analyze the racial impacts of law, politics, culture, and public policy.
3. Knowledge about diverse human behavior and communities.
4. Awareness of social justice struggles.
5. The development of cultural competency, central to living in and understanding the surrounding world.
6. Critically analyze Ethnic Studies perspectives, theories, and themes.
7. Critically engage the cultural and intellectual contributions of people of color.
8. Develop research techniques and anti-oppressive methodologies for participatory research with communities of color.

Required Core Courses:		
ANTH 100	Introduction to Cultural Anthropology	3
–OR–		
ANTH 100H	Honors Introduction to Cultural Anthropology	3
ASIA 101	Introduction to Asian American Studies	3
BLST 101	Introduction to African American Studies	3
CHST 101	Introduction to Chicana/o Studies	3
ETHN 101	Introduction to Ethnic Studies	3
–OR–		
ETHN 101H	Honors Introduction to Ethnic Studies	3
ETHN 102	The Borderlands: Cultural Context and Intercultural Relations	3
–OR–		
ETHN 102H	Honors the Borderlands: Cultural Context and Intercultural Relations	3
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3
	Total:	**21**

A minimum of six (6) units but, not more than three (3) units from any one discipline taken from the following list:		**Units:**	**6**
ANTH 104	Language and Culture	3	
-OR-			
ANTH 104H	Honors Language and Culture	3	
-OR-			
ENGL 104	Language and Culture	3	
-OR-			
ENGL 104H	Honors Language and Culture	3	
ANTH 105	Ancient Mesoamerican Civilization	3	
-OR-			
HIST 105	Ancient Mesoamerican Civilization	3	
ANTH 125	Native Americans in the U.S.	3	
ART 103	Arts of Africa, Oceania, and Indigenous North America	3	
ART 104	Mexican and Chicano Art History	3	
ART 106	Asian Art History	3	
DNCE 105	World Dance and Cultures	3	
DNCE 112	Ethnic Dance	1	
ENGL 245	The Image of African Americans in Literature and Films	3	
ENGL 246	Survey of Chicano Literature	3	
HIST 101	World Civilizations to the 16th Century	3	
-OR-			
HIST 101H	Honors World Civilizations to the 16th Century	3	
HIST 102	World Civilizations Since the 16th Century	3	
-OR-			
HIST 102H	Honors World Civilizations Since the 16th Century	3	
HIST 123	African American History to 1865	3	
HIST 124	Mexican American History in the United States	3	
-OR-			
HIST 124H	Honors Mexican American History in the United States	3	
HIST 125	Native Americans in the U.S.	3	
HIST 146	African American Histoiry from 1863 to the Present	3	
HIST 150	Latin American Civilization to Independence	3	
HIST 151	Modern Latin American Civilization	3	
HIST 153	History of Mexico	3	
HIST 181	Survey of Chicana/Latina Women’s History	3	
CDEV 221	Living and Teaching in a Diverse Society	3	
MUS 102	World Music	3	
-OR-			
MUS 102H	Honors World Music	3	
MUSC 103	Jazz in America	3	
SOC 100	Introduction to Sociology	3	
-OR-			
SOC 100H	Honors Introduction to Sociology	3	
		Total:	**27**

FASHION DESIGN MERCHANDISING

Apparel Product Development and Technical Design Degree: AA

Program code: SAC.FDCAP.AA

Program Control Number: 08742

In addition to the general education requirements, this vocational program provides the technical skills and product background necessary to work in apparel jobs such as pattern making, product development, and technical design in ready-to-wear or theater costumes.

Emphasis is placed on developing vocational skills including computer applications current to fashion design manufacturing.

Major requirements for the association in arts in Product Development and Technical Design are:

Learning Outcome(s):

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

1. Apply their creative abilities to support their future design careers.
2. Determine the manufacturing process to the appropriate design process.
3. Solve problems at all levels of the design process.

Required Core Courses:		**Units: 32-37**
FDM 100	Introduction to Fashion	3
FDM 103	Fashion Selection	3
FDM 104	Textile Fibers and Fabrics	3
FDM 105A	Beginning Sewing	3
FDM 109	Flat Pattern Techniques	3.5
FDM 111A	Fashion Illustration Techniques	3
FDM 113	Fashion Draping	3.5
FDM 214	Tech-Packs for Manufactured Apparel	3
FDM 215	Computer Fashion Illustration	3
FDM 216	Computer Flat Pattern Design, Grading, and Marking	3
FDM 299	Cooperative Work Experience Education	1-6
Select six units from the following elective courses:		
FDM 052	Knit and Swim Suit Sewing	3
FDM 055	Children's Clothing	2
FDM 056	Basic Sewing and Alternations	1
FDM 058	Decorative Apparel	0.5
FDM 080	Embroidery	1.5
FDM 081	Fabric Printing	1.5
FDM 101	Buying and Merchandising	3
FDM 102	Promotion and Coordination	3
FDM 105B	Intermediate Sewing	2
FDM 106	Advanced Sewing	3
FDM 107	Custom Tailoring	2
FDM 125	Display Merchandising	3
FDM 213	Apparel Line Production	3
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1
ENTR 121	People Skills for the Freelancer	1
ENTR 122	Opportunities in Freelance Industries and Trades	1
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1
ENTR 125	Launch Your Freelance Business	1
		Total: 38-43

Fashion Design Degree: AA

Program code: SAC.FDC.AA

Program Control Number: 08739

In addition to the general education requirements, the associate degree curriculum in fashion design provides the basic aesthetic concepts and technical skills necessary for immediate employment in the fashion related fields of design or to transfer to a university program. The program prepares students for entry-level positions in apparel design for custom clients, theater costuming, and manufacturer's operations. Completion of the degree enhances ability to obtain a position and advance in the fashion design field.

Major requirements for the associate of arts in Fashion Design are:

Learning Outcome(s):

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

1. Apply their creative abilities to support their future design careers
2. Formulate design ideas verbally, visually, and digitally.
3. Utilize various techniques related to drafting, draping, and constructing garments.
4. Design visual materials in both physical and digital formats.

Required Core Courses:		**Units:**
FDM 080	Embroidery	1.5
FDM 081	Fabric Printing	1.5
FDM 100	Introduction to Fashion	3
FDM 103	Fashion Selection	3
FDM 104	Textile Fibers and Fabrics	3
FDM 105A	Beginning Sewing	3
FDM 109	Flat Pattern Techniques	3.5
FDM 111A	Fashion Illustration Techniques	3
FDM 113	Fashion Draping	3.5
FDM 213	Apparel Line Production	3
FDM 214	Tech-Packs for Manufactured Apparel	3
FDM 215	Computer Fashion Illustration	3
FDM 299	Cooperative Work Experience Education	1-6
Select six units from the following elective courses:		
FDM 052	Knit and Swim Suit Sewing	3
FDM 055	Children's Clothing	2
FDM 056	Basic Sewing and Alternations	1
FDM 058	Decorative Apparel	0.5
FDM 101	Buying and Merchandising	3
FDM 102	Promotion and Coordination	3
FDM 105B	Intermediate Sewing	2
FDM 106	Advanced Sewing	3
FDM 107	Custom Tailoring	2
FDM 110	Corset Construction	3
FDM 125	Display Merchandising	3
FDM 140	Fashion E-Commerce	3
FDM 216	Computer Flat Pattern Design, Grading, and Marking	3
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1
ENTR 121	People Skills for the Freelancer	1
ENTR 122	Opportunities in Freelance Industries and Trades	1
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1
ENTR 125	Launch Your Freelance Business	1
		Total: 41-46

Fashion Merchandising Degree: AA

Program code: SAC.FDM.AA

Program Control Number: 08740

In addition to the general education requirements, the associate degree curriculum in fashion merchandising is designed to prepare students for a career in the fashion industry or to transfer to a university program.

The program places emphasis on preparing students for entry-level positions in such areas as sales, buying, merchandising, promotion, retail management, styling, and fashion forecasting.

Major requirements for the associate of arts in Merchandising are:

Learning Outcome(s):

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

1. Apply their creative abilities to support their future design careers
2. Summarize and relate fashion design to a broader socioeconomic context.

Required Core Courses:		**Units: 33-38**
FDM 100	Introduction to Fashion	3
FDM 101	Buying and Merchandising	3
FDM 102	Promotion and Coordination	3
FDM 103	Fashion Selection	3
FDM 104	Textile Fibers and Fabrics	3
FDM 105A	Beginning Sewing	3
FDM 111A	Fashion Illustration Techniques	3
FDM 125	Display Merchandising	3
FDM 140	Fashion E-Commerce	3
FDM 214	Tech-Packs for Manufactured Apparel	3
FDM 299	Cooperative Work Experience Education	1-6
BA 188	Microsoft Excel	2
Select six units from the following electives:		
FDM 108	RTW Quality Analysis	3
FDM 109	Flat Pattern Techniques	3.5
FDM 113	Fashion Draping	3.5
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1
ENTR 121	People Skills for the Freelancer	1
ENTR 122	Opportunities in Freelance Industries and Trades	1
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1
ENTR 125	Launch Your Freelance Business	1
BA 189	Advanced Microsoft Excel	2
		Total: 39-44

Apparel Product Development and Technical Design: Certificate of Achievement *(Transcripted)*

Program code: SAC.FDCAP.CA

Program Control Number: 21792

Learning Outcome(s):

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

1. Apply their creative abilities to support their future design careers.
2. Determine the manufacturing process to the appropriate design process.
3. Solve problems at all levels of the design process.

Required Core Courses:		**Units: 32-37**
FDM 100	Introduction to Fashion	3
FDM 103	Fashion Selection	3
FDM 104	Textile Fibers and Fabrics	3
FDM 105A	Beginning Sewing	3
FDM 109	Flat Pattern Techniques	3.5
FDM 111A	Fashion Illustration Techniques	3
FDM 113	Fashion Draping	3.5
FDM 214	Tech-Packs for Manufactured Apparel	3
FDM 215	Computer Fashion Illustration	3
FDM 216	Computer Flat Pattern Design, Grading, and Marking	3
FDM 299	Cooperative Work Experience Education	1-6
Select six units from the following elective courses:		
FDM 052	Knit and Swim Suit Sewing	3
FDM 055	Children's Clothing	2
FDM 056	Basic Sewing and Alternations	1
FDM 058	Decorative Apparel	0.5
FDM 080	Embroidery	1.5
FDM 081	Fabric Printing	1.5
FDM 101	Buying and Merchandising	3
FDM 102	Promotion and Coordination	3
FDM 105B	Intermediate Sewing	2
FDM 106	Advanced Sewing	3
FDM 107	Custom Tailoring	2
FDM 125	Display Merchandising	3
FDM 213	Apparel Line Production	3
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1
ENTR 121	People Skills for the Freelancer	1
ENTR 122	Opportunities in Freelance Industries and Trades	1
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1
ENTR 125	Launch Your Freelance Business	1
		Total: 38-43

Dressmaking and Alterations Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.FDCDA.CA

Program Control Number: 10667

The certificate curriculum in dressmaking and alteration prepares students for employment in the alterations department of department stores or for the operation of their own business in dressmaking, tailoring, and alterations. Certificate option in Dressmaking and Alterations can be earned through the completion of the following required courses:

Learning Outcome(s):

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

1. Apply their creative abilities to support their future design careers
2. Create garments utilizing various techniques related to drafting, draping, and constructing garments.

Required Core Courses:		**Units:**	**37**
FDM 052	Knit and Swim Suit Sewing	3	
–OR–			
FDM 055	Children's Clothing	2	
FDM 056	Basic Sewing and Alternations	1	
FDM 105A	Beginning Sewing	3	
FDM 105B	Intermediate Sewing	2	
FDM 106	Advanced Sewing	3	
FDM 107	Custom Tailoring	2	
FDM 109	Flat Pattern Techniques	3.5	
FDM 113	Fashion Draping	3.5	
FDM 104	Textile Fibers and Fabrics	3	
FDM 110	Corset Construction	3	
FDM 212	Advanced Draping	2	
FDM 112	Advanced Flat Pattern Making	3	
FDM 213	Apparel Line Production	3	
Select 3 units from the following:			
FDM 005	Fashion Laboratory	0.5-3	
FDM 058	Decorative Apparel	0.5	
FDM 080	Embroidery	1.5	
FDM 081	Fabric Printing	1.5	
FDM 102	Promotion and Coordination	3	
FDM 111A	Fashion Illustration Techniques	3	
FDM 140	Fashion E-Commerce	3	
FDM 216	Computer Flat Pattern Design, Grading, and Marking	3	
FDM 299	Cooperative Work Experience Education	1-6	
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1	
ENTR 121	People Skills for the Freelancer	1	
ENTR 122	Opportunities in Freelance Industries and Trades	1	
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1	
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1	
ENTR 125	Launch Your Freelance Business	1	
		Total:	**40**

Fashion Design: Certificate of Achievement *(Transcripted)*

Program code: SAC.FDC.CA

Program Control Number: 21790

The certificate curriculum in fashion design provides the basic aesthetic concepts and technical skills necessary for immediate employment in the fashion related fields of design.

The program prepares students for entry-level positions in apparel design for custom clients, theater costuming, and manufacturer's operations.

Completion of the certificate enhances ability to obtain a position and advance in the fashion design field.

Learning Outcome(s):

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

1. Apply their creative abilities to support their future design careers
2. Formulate design ideas verbally, visually, and digitally.
3. Utilize various techniques related to drafting, draping, and constructing garments.
4. Design visual materials in both physical and digital formats.

Required Core Courses:		**Units:**	**35-40**
FDM 080	Embroidery	1.5	
FDM 081	Fabric Printing	1.5	
FDM 100	Introduction to Fashion	3	
FDM 103	Fashion Selection	3	
FDM 104	Textile Fibers and Fabrics	3	
FDM 105A	Beginning Sewing	3	
FDM 109	Flat Pattern Techniques	3.5	
FDM 111A	Fashion Illustration Techniques	3	
FDM 113	Fashion Draping	3.5	
FDM 213	Apparel Line Production	3	
FDM 214	Tech-Packs for Manufactured Apparel	3	
FDM 215	Computer Fashion Illustration	3	
FDM 299	Cooperative Work Experience Education	1-6	
Select six units from the following elective courses:			
FDM 052	Knit and Swim Suit Sewing	3	
FDM 055	Children's Clothing	2	
FDM 056	Basic Sewing and Alternations	1	
FDM 058	Decorative Apparel	0.5	
FDM 101	Buying and Merchandising	3	
FDM 102	Promotion and Coordination	3	
FDM 105B	Intermediate Sewing	2	
FDM 106	Advanced Sewing	3	
FDM 107	Custom Tailoring	2	
FDM 110	Corset Construction	3	
FDM 125	Display Merchandising	3	
FDM 140	Fashion E-Commerce	3	
FDM 216	Computer Flat Pattern Design, Grading, and Marking	3	
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1	
ENTR 121	People Skills for the Freelancer	1	
ENTR 122	Opportunities in Freelance Industries and Trades	1	
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1	
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1	
ENTR 125	Launch Your Freelance Business	1	
		Total:	**41-46**

Fashion Merchandising: Certificate of Achievement *(Transcripted)*

Program code: SAC.FDM.CA

Program Control Number: 21791

The certificate curriculum in fashion merchandising is designed to prepare students for a career in the fashion industry.

The program places emphasis on preparing students to enter entry level positions in such areas as sales, buying, merchandising, promotion, retail management, styling, and fashion forecasting.

Learning Outcome(s):

1. Apply their creative abilities to support their future design careers
2. Summarize and relate fashion design to a broader socioeconomic context.

Required Core Courses:		**Units: 33-38**
FDM 100	Introduction to Fashion	3
FDM 101	Buying and Merchandising	3
FDM 102	Promotion and Coordination	3
FDM 103	Fashion Selection	3
FDM 104	Textile Fibers and Fabrics	3
FDM 105A	Beginning Sewing	3
FDM 111A	Fashion Illustration Techniques	3
FDM 125	Display Merchandising	3
FDM 140	Fashion E-Commerce	3
FDM 214	Tech-Packs for Manufactured Apparel	3
FDM 299	Cooperative Work Experience Education	1-6
BA 188	Microsoft Excel	2
Select six units from the following electives:		**Units: 18**
FDM 108	RTW Quality Analysis	3
FDM 109	Flat Pattern Techniques	3.5
FDM 113	Fashion Draping	3.5
ENTR 120	Introduction to Working as a Freelance Independent Contractor	1
ENTR 121	People Skills for the Freelancer	1
ENTR 122	Opportunities in Freelance Industries and Trades	1
ENTR 123	Marketing to Attract Customers and Grow Your Freelance Business	1
ENTR 124	Survival Finance and Accounting for the Freelancer-Show Me the Money	1
ENTR 125	Launch Your Freelance Business	1
BA 189	Advanced Microsoft Excel	2
		Total: 39-44

Fashion Assistant: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.FDFA.CERT

This certificate curriculum is designed to prepare students for entry level design assistant positions in the apparel industry. All classes offer sections availble online.

Learning Outcome(s):

1. Apply their creative abilities to support their future design careers.
2. Utilize various software related to designing garments.

Required Core Courses:		**Units: 16-21**
FDM 100	Introduction to Fashion	3
FDM 104	Textile Fibers and Fabrics	3
FDM 105A	Beginning Sewing	3
FDM 111A	Fashion Illustration Techniques	3
FDM 215	Computer Fashion Illustration	3
FDM 299	Cooperative Work Experience Education	1-6
		Total: 16-21

Quinceañera Dress Design: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.FDQDD.CERT

The certificate curriculum prepares students for entry level careers in designing and constructing Quinceañera dresses.

Learning Outcome(s):

1. Apply their creative abilities to support their future design careers.
2. Create garments in both physical and digital formats.

Required Core Courses:		**Units: 16.5**
FDM 058	Decorative Apparel	0.5
FDM 105A	Beginning Sewing	3
FDM 110	Corset Construction	3
FDM 109	Flat Pattern Techniques	3.5
FDM 113	Fashion Draping	3.5
FDM 213	Apparel Line Production	3
		Total: 16.5

Screen Printing and Embroidery: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.FDSPE.CERT

This certificate curriculum is designed to prepare students for entry level positions in screen printing and embroidery shops.

Learning Outcome(s):

1. Apply their creative abilities to support their future design careers.
2. Create screen printed and embroidered garments in the physical format.
3. Utilize various equipment and software related to screen printing and embroidery.

Required Core Courses:		**Units: 16-21**
FDM 080	Embroidery	1.5
FDM 081	Fabric Printing	1.5
FDM 104	Textile Fibers and Fabrics	3
FDM 111A	Fashion Illustration Techniques	3
FDM 213	Apparel Line Production	3
FDM 215	Computer Fashion Illustration	3
FDM 299	Cooperative Work Experience Education	1-6
		Total: 16-21

Swimwear Design: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.FDSD.CERT

This certificate curriculum is designed to prepare students for entry level design and product development positions in southern California's swimwear industry.

Learning Outcome(s):

Apply their creative abilities to support their future design careers.

1. Design knit garments in both physical and digital formats

Required Core Courses:		**Units: 16-21**
FDM 052	Knit and Swim Suit Sewing	3
FDM 105A	Beginning Sewing	3
FDM 111A	Fashion Illustration Techniques	3
FDM 214	Tech-Packs for Manufactured Apparel	3
FDM 213	Apparel Line Production	3
FDM 299	Cooperative Work Experience Education	1-6
		Total: 16-21

Visual Merchandising: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.FDVM.CERT

This certificate curriculum is designed to prepare students for visual merchandising positions at fashion retail stores.

Learning Outcome(s):

1. Apply their creative abilities to support their future design careers.
2. Design visual materials in both physical and digital formats.

Required Core Courses:		**Units: 16-21**
FDM 100	Introduction to Fashion	3
FDM 101	Buying and Merchandising	3
FDM 102	Promotion and Coordination	3
FDM 125	Display Merchandising	3
FDM 140	Fashion E-Commerce	3
FDM 299	Cooperative Work Experience Education	1-6
		Total: 16-21

FIRE TECHNOLOGY

Administrative Fire Services Chief Officer Degree: AS

Program code: SAC.FTCO.AS

Program Control Number: 10549

Administrative Fire Services Chief Officer Degree (sac.ftco.as)

The Administrative Fire Services Chief Officer Degree is designed to prepare students for careers as chief officers. This program meets the requirements of the California Fire Chiefs' Association and the Chief Fire Officer Certification track of the California State Fire Marshal. Transcript evaluation may allow up to a maximum of 18 units of credit for previous fire service education. If Fire Technology 121 is completed as an elective with a "C" or better grade and FTC 121L is completed with a "pass," it may be used to satisfy the requirements for section F of the general education requirements for graduation.

Student must complete the general education requirements as outlined in the appropriate catalog.

Learning Outcome(s):

1. Meet the occupational standards for California State Fire Training's Chief Fire Officer Certification.
2. Carry out the job performance requirements as listed in NFPA 1021 Standard for Fire Officer Professional Qualifications (2014).
3. Perform the job performance requirements of NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications (2016)

Required Core Courses:		**Units:**	**12**
FOT 032	ICS-300 Intermediate ICS	0.5	
FOT 150A	Company Officer 2A: Human Resource Management for Company Officers	1.5	
FOT 150B	Company Officer 2B: General Administration Functions for Company Officers	0.5	
FOT 150C	Company Officer 2C: Fire Inspections and Investigations	1.5	
FOT 150D	Company Officer 2D: All-Risk Command Operations for Company Officers	1.5	
FOT 150E	Company Officer 2E: Wildland Incident Operations for Company Officers	1.5	
FOT 205	Instructor I: Instructional Methodology	1.5	
FOT 273A	Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers	1	
FOT 273B	Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers	0.5	
FOT 273C	Chief Fire Officer 3C: General Administration Functions	1	
FOT 273D	Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers	1	

Electives- In addition, select a minimum of 3.5-13 units from the following list (classes in this area may be substituted with similar classes).		**Units:3.5-13**
FOT 008A	S-339 Division/Group Supervisor All Risk	0.5
FOT 033	ICS-400 Incident Command	0.5
FOT 044	Fire Investigation 1A: Fire Origin and Cause Determination	0.5
FAC 060A	Basic Fire Academy- Fire Fighter 1A Structure	10
FAC 060B	Firefighter 1B - Hazardous Materials / WMD	1
FAC 060C	Firefighter 1C - Wildland Firefighter 1	2
FTC 102	Fire Behavior and Combustion	3
FTC 103	Principles of Fire and Emergency Services Safety and Survival	3
FTC 104	Fire Prevention	3
FTC 105	Building Construction for Fire Protection	3
FTC 106	Fire Protection Systems	3
FTC 121L	Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3
FTC 121	Physical Fitness for Public Safety Personnel	3
FOT 130A	Fire Inspector 1A: Duties and Administration	1.5
FOT 130B	Fire Inspector 1B: Introduction to Fire and Life Safety	1.5
FOT 130C	Fire Inspector 1C: Field Inspection	1.5
FOT 206	Instructor II: Instructional Development	1.5
		Total: 15.5-25

Fire Administration Option Degree: AS

Program code: SAC.FTFA.AS

Program Control Number: 10575

The degree program in fire administration is designed to prepare students for careers as fire service officers. The program meets requirements of the California State Board of Fire Services Certified Company Officer and college or university preparation. Transcript evaluation may allow up to a maximum of 18 units of credit for previous fire service education. If Fire Technology 121 is completed as an elective with a "C" or better grade and FTC 121L is completed with a "pass," it may be used to satisfy the requirements of section F of the general education requirements for graduation.

Student must complete the general education requirements as outlined in the appropriate catalog.

Learning Outcome(s):

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

1. Demonstrate the ability to manage all-risk emergency incidents at the Fire Officer level.
2. Apply leadership and management theories and decision-making models as they relate to the local, state and federal standards and practices.
3. Analyze complex emergency response scenarios and effectively identify strategies and tactics for successful mitigation.

Required Core Courses:		**Units:**	**12.8**
FOT 016	CSFA Terrorism	0.3	
FOT 032	ICS-300 Intermediate ICS	0.5	
FOT 033	ICS-400 Incident Command	0.5	
FOT 150A	Company Officer 2A: Human Resource Management for Company Officers	1.5	
FOT 150B	Company Officer 2B: General Administration Functions for Company Officers	0.5	
FOT 150C	Company Officer 2C: Fire Inspections and Investigations	1.5	
FOT 150D	Company Officer 2D: All-Risk Command Operations for Company Officers	1.5	
FOT 150E	Company Officer 2E: Wildland Incident Operations for Company Officers	1.5	
FOT 205	Instructor I: Instructional Methodology	1.5	
FOT 273A	Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers	1	
FOT 273B	Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers	0.5	
FOT 273C	Chief Fire Officer 3C: General Administration Functions	1	
FOT 273D	Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers	1	
Core Electives		**Units:**	**9**
FTC 102	Fire Behavior and Combustion	3	
FTC 103	Personal Fire Safety	3	
FTC 104	Fire Prevention Technology	3	
FTC 105	Building Construction for Fire Protection	3	
FTC 106	Fire Protection Systems	3	
FTC 121	Physical Fitness for Public Safety Personnel	3	
FAC 060A	Basic Fire Academy - Fire Fighter 1A Structure	10	
FAC 060B	Firefighter 1B - Hazardous Materials / WMD	1	
FAC 060C	Firefighter 1C - Wildland Firefighter 1	2	
FTC 121L	Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3	
		Total:	**21.8**

Fire Prevention Officer Degree: AS

Program code: SAC.FTPO.AS

Program Control Number: 8749

The Fire Prevention Officer Degree is designed to prepare students as Fire Protection Engineering Technicians and as staff assistants to Fire Protection Engineers; to enable fire department personnel to upgrade skills in the area of fire prevention; to give architects, engineers and persons from other disciplines an opportunity to expand their knowledge of building, life safety and fire protection. This program meets the requirements of the California State Board of Fire Services Certified Fire Inspector and college or university preparation. This degree option does not include FTC 121 and 121L in the program. Therefore, students must complete Area F of the Associate Degree general education requirements. Student must complete the general education requirements as outlined in the appropriate catalog.

Learning Outcome(s):

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

1. Demonstrate written and verbal communication skills, basic math skills, public relations skills and ethical decision making skills required for the occupation of Fire Inspector.
2. Analyze, evaluate, and develop mitigation plans for emergency and hazardous conditions that are inherent to Fire Prevention.
3. Perform skills that meet National Fire Protection Association Standard 1031 for Fire Inspector, California State Fire Marshal Standards for Fire Inspector and International Code Council- Fire Inspector

Required Core Courses:		**Units:**	**15**
FTC 101	Fire Protection Organization		
FTC 102	Fire Behavior and Combustion		
FTC 104	Fire Prevention Technology		
FTC 105	Building Construction for Fire Protection		
FTC 106	Fire Protection Equipment and Systems		
Fire Officer Courses. Complete all of the courses listed below (11 units)			
FOT 130A	Fire Inspector 1A: Duties and Administration	1.5	
FOT 130B	Fire Inspector 1B: Introduction to Fire and Life Safety	1.5	
FOT 130C	Fire Inspector 1C: Field Inspection	1.5	
FOT 130D	Fire Inspector 1D: Field Inspector	1	
FOT 136	Fire Inspector 2A: Fire Prevention Administration	1	
FOT 137	Fire Inspector 2B: Fire and Life Safety Requirements	1.5	
FOT 138	Fire Inspector 2C: Inspecting Fire & Life Safety Systems and Equip.	1	
FOT 139	Fire Inspector 2D: Hazardous Materials, Operations, and Processes	2	
		Total:	**26**

Public Fire Service Option Degree: AS

Program code: SAC.FTPFS.AS

Program Control Number: 08752

Students completing the Public Service Option Degree are prepared for employment as volunteer, paid-on-call, part-time, or full-time firefighters. Through a combination of professional education and technical training, students develop the knowledge and skills needed to perform essential and advanced fireground tasks. Students learn to use, inspect, and maintain firefighting and rescue equipment; and perform basic rescue operations and fire prevention and investigation tasks. As they advance through the program students are provided with numerous opportunities to earn professional certificates and industry-recognized credentials.

Students successfully completing the program receive state, national, and international Firefighter 1 Certification through the California Office of the State Fire Marshal, IFSAC (International Fire Service Accreditation Congress) and Pro Board accrediting agencies.

Major Requirements for A.S. Degree

1. Meet all of the pre-academy requirements listed. Copies of documentation must be submitted to the Fire Technology Office.
   a. Biddle Physical Ability Test - certificate of completion
   b. CPR/First Aid- current certification
   c. NFPA 1582 Medical Clearance - dated within 2 years of academy participation
2. Complete all Fire Technology coursework listed below with a grade of C or better
3. Complete the Fire Academy: FAC 007 and FAC 060A-C with grades of 80% or better.
4. Pass the National Firefighter I Exams.
5. Complete all General Education Coursework.

Learning Outcome(s):

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

1. Demonstrate the occupational knowledge and technical skills needed to perform the duties of a Fire Fighter I which is based upon NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019) and California State Fire Training's Fire Fighter 1 (2019).
2. Demonstrate the occupational knowledge and technical skills required to carry out the duties of a Wildland Firefighter, based upon NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2016).
3. Demonstrate the occupational knowledge and technical skills needed to carry out the duties of Haz Mat/WMD Emergency Responder based upon NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017).

Pre-Academy Requirements

Current Public Safety First Aid and CPR (minimum) as defined by California Health and Safety Code, Section 1797.182

Current National Registry Emergency Medical Technician (NREMT) Certification

NFPA 1582 Medical Clearance from a qualified physician dated within 2 years of Fire Academy participation.

FAC 008	Biddle Physical Ability Test (PAT)	0.1

Current National Registry Emergency Medical Technician (NREMT) Certification

NFPA 1582 Medical Clearance from a qualified physician dated within 2 years of Fire Academy

Required Core Courses:		**Units:**	**21.3**
FTC 101	Fire Protection Organization	3	
FTC 102	Fire Behavior and Combustion	3	
FTC 103	Personal Fire Safety	3	
FTC 104	Fire Prevention Technology	3	
FTC 105	Building Construction for Fire Protection	3	
FTC 106	Fire Protection Equipment and Systems	3	
FTC 121	Physical Fitness for Public Safety Personnel	3	
FTC 121L	Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3	
Fire Academy Courses		**Units:**	**15**
FAC 007	Strength and Conditioning for the Fire Service	2	
FAC 060A	Basic Fire Academy - Fire Fighter 1A Structure	10	
FAC 060B	Firefighter 1B - Hazardous Materials / WMD	1	
FAC 060C	Firefighter 1C - Wildland Firefighter 1	2	
		Total:	**36.4**

Fire Administration Option: Certificate of Achievement

(Transcripted)

Program code: SAC.FTFA.CA

Program Control Number: 21797

The certificate program in fire administration is designed to prepare students for careers as fire service officers. The program meets requirements of the California State Board of Fire Services Company Officer and college or university preparation. Transcript evaluation may allow up to a maximum of 18 units of credit for previous fire service education.

Learning Outcome(s):

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

1. Demonstrate the ability to manage all-risk emergency incidents at the Fire Officer level.
2. Apply leadership and management theories and decision-making models as they relate to the local, state and federal standards and practices.
3. Analyze complex emergency response scenarios and effectively identify strategies and tactics for successful mitigation.

Required Core Courses:		**Units:**	**8**
FOT 150A	Company Officer 2A: Human Resource Management for Company Officers	1.5	
FOT 150B	Company Officer 2B: General Administration Functions for Company Officers	0.5	
FOT 150C	Company Officer 2C: Fire Inspections and Investigations	1.5	
FOT 150D	Company Officer 2D: All-Risk Command Operations for Company Officers	1.5	
FOT 150E	Company Officer 2E: Wildland Incident Operations for Company Officers	1.5	
FOT 205	Instructor I: Instructional Methodology	1.5	
Core Electives		**Units:**	**9**
FTC 102	Fire Behavior and Combustion	3	
FTC 103	Principles of Fire and Emergency Services Safety and Survival	3	
FTC 104	Fire Prevention	3	
FTC 105	Building Construction for Fire Protection	3	
FTC 106	Fire Protection Systems	3	
FTC 121	Physical Fitness for Public Safety Personnel	3	
FTC 121L	Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3	
FAC 060A	Basic Fire Academy: Fire Fighter 1A Structure	10	
FAC 060B	Firefighter 1B - Hazardous Materials / WMD	1	
FAC 060C	Firefighter 1C - Wildland Firefighter 1	2	

Electives		**Units:**	**4.8**
FOT 008A	S-339 Division/Group Supervisor All Risk	0.5	
FOT 016	CSFA Terrorism	0.3	
FOT 032	ICS-300 Intermediate ICS	0.5	
FOT 033	ICS-400 Incident Command	0.5	
FOT 044	Fire Investigation 1A: Fire Origin and Cause Determination	0.5	
FOT 045	Fire Investigation 1B: Techniques of Fire Investigation	0.5	
FAC 062	Basic Incident Command Systems	0.3	
FOT 078	S-230 Crew Boss (Single Resource)	0.5	
FOT 079	S-404 Safety Officer	0.5	
FAC 079B	S-330 Task Force-Strike Leader	0.5	
FAC 079D	S-440 Planning Section Chief	0.5	
FAC 084A	Hazardous Materials First Responder Operational, Decontamination	0.3	
FOT 130A	Fire Inspector 1A: Duties and Administration	1.5	
FOT 130B	Fire Inspector 1B: Introduction to Fire and Life Safety	1.5	
FOT 130C	Fire Inspector 1C: Field Inspection	1.5	
FOT 130D	Fire Inspector 1D: Field Inspector	1	
FOT 206	Instructor II: Instructional Development	1.5	
FOT 210	Community Risk Educator	1.5	
		Total:	**21.8**

Fire Prevention Officer: Certificate of Achievement

(Transcripted)

Program code: SAC.FTPO.CA

Program Control Number: 17350

The Fire Prevention Officer Certificate is designed to prepare students as Fire Protection Engineering Technicians and as staff assistants to Fire Protection Engineers; to enable fire department personnel to upgrade skills in the area of prevention; and to give architects, engineers and persons from other disciplines an opportunity to expand their knowledge of building, life safety, and fire protection. This certificate program meets the requirements of the California State Board of Fire Services for Certified Fire Inspector I and college or university preparation.

Learning Outcome(s):

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

1. Demonstrate written and verbal communication skills, basic math skills, public relations skills and ethical decision making skills required for the occupation of Fire Inspector.
2. Analyze, evaluate, and develop mitigation plans for emergency and hazardous conditions that are inherent to Fire Prevention.
3. Perform skills that meet National Fire Protection Association Standard 1031 for Fire Inspector, California State Fire Marshal Standards for Fire Inspector and International Code Council- Fire Inspector

Required Core Courses:		**Units:**	**15**
FTC 101	Fire Protection Organization	3	
FTC 102	Fire Behavior and Combustion	3	
FTC 104	Fire Prevention Technology	3	
FTC 105	Building Construction for Fire Protection	3	
FTC 106	Fire Protection Equipment and Systems	3	
Fire Officer Courses: Complete all courses listed below (5.5 units):			
FOT 130A	Fire Inspector 1A: Duties and Administration	1.5	
FOT 130B	Fire Inspector 1B: Introduction to Fire and Life Safety	1.5	
FOT 130C	Fire Inspector 1C: Field Inspection	1.5	
FOT 130D	Fire Inspector 1D: Field Inspector	1	
		Total:	**20.5**

Public Fire Service Option: Certificate of Achievement

(Transcripted)

Program code: SAC.FTPFS.CA

Program Control Number: 21798

Students completing the Public Service Option Certificate are prepared for employment as volunteer, paid-on-call, part-time, or full-time firefighters. Through a combination of professional education and technical training, students develop the knowledge and skills needed to perform essential and advanced fireground tasks. Students learn to use, inspect, and maintain firefighting and rescue equipment; and perform basic rescue operations and fire prevention and investigation tasks. As they advance through the program students are provided with numerous opportunities to earn professional certificates and industry-recognized credentials.

Students successfully completing the program receive state and national Fire Fighter 1 Certification through the California Office of the State Fire Marshal, IFSAC (International Fire Service Accreditation Congress) and Pro Board accrediting agencies.

Major Requirements for Certificate

Fire Academy registration requires the approval of the Fire Technology Office. Prior to registering for the Fire Academy (FAC 060A, 060B or 060C), a student must

1. Open a Student File in the Fire Technology Office after completing FTC 101 and FTC 102 with a grade of C or better.
2. Meet all of the pre-academy requirements listed including. Copies of documentation must be submitted to the Fire Technology Office.
   a. CPR/First Aid- current certification
   b. NREMT- current certification
   c. Biddle Physical Ability Test- certificate of completion
   d. NFPA 1582 Medical Clearance - dated within 2 years of academy participation
3. Complete all Fire Technology coursework listed below with a grade of C or better.

Learning Outcome(s):

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

1. Demonstrate the occupational knowledge and technical skills needed to perform the duties of a Fire Fighter I which is based upon NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019) and California State Fire Training's Fire Fighter 1 (2019).
2. Demonstrate the occupational knowledge and technical skills required to carry out the duties of a Wildland Firefighter, based upon NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2016).
3. Demonstrate the occupational knowledge and technical skills needed to carry out the duties of Haz Mat/WMD Emergency Responder based upon NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017).

Pre-Academy Requirements

Current Public Safety First Aid and CPR (minimum) as defined by California Health and Safety Code, Section 1797.182

Current National Registry Emergency Medical Technician (NREMT) Certification

NFPA 1582 Medical Clearance from a qualified physician dated within 2 years of Fire Academy participation. Units: 0.1

FAC 008 Biddle Physical Ability Test (PAT) 0.1

Required Core Courses:		**Units:**	**21.3**
FTC 101	Fire Protection Organization	3	
FTC 102	Fire Behavior and Combustion	3	
FTC 103	Principles of Fire and Emergency Services Safety and Survival	3	
FTC 104	Fire Prevention	3	
FTC 105	Building Construction for Fire Protection	3	
FTC 106	Fire Protection Systems	3	
FTC 121	Physical Fitness for Public Safety Personnel	3	
FTC 121L	Physical Fitness for Public Safety Personnel - Performance and Assessment	0.3	
Fire Academy Courses		**Units:**	**15**
FAC 007	Strength and Conditioning for the Fire Service	2	
FAC 060A	Basic Fire Academy - Fire Fighter 1A Structure	10	
FAC 060B	Firefighter 1B - Hazardous Materials / WMD	1	
FAC 060C	Firefighter 1C - Wildland Firefighter 1	2	
		Total:	**36.4**

Fire Service Core Competencies: Certificate of Proficiency

(Untranscripted)

Program code: SAC.FTYFS.CERT

This certificate documents extensive coursework on the part of the recipient in fire and emergency services organization, fire behavior, fire prevention, building construction, and fire protection systems and equipment. Completion of this curriculum provides students with fundamental knowledge of fire department operations, organization and basic fire prevention methods and techniques.

Learning Outcome(s):

1. Define fire department organization, culture, and methods of communication of entry level fire department personnel.
2. Describe fire chemistry and behavior for the purpose of predicting fire dynamics and flame spread characteristics.
3. Demonstrate knowledge of the types of construction. Identify the components and hazards related to each type.
4. Identify components of built-in and portable fire protections systems and alarm and notification devises.
5. Demonstrate knowledge of fire prevention codes and standards, fire safety protection system methods, procedures and building codes, and fire code requirements as they relate to construction for fire protection and fire apparatus access.

Required Core Courses:		**Units:**	
FTC 101	Fire Protection Organization	3	
FTC 102	Fire Behavior and Combustion	3	
FTC 104	Fire Prevention	3	
FTC 105	Building Construction for Fire Protection	3	
FTC 106	Fire Protection Systems	3	
		Total:	**15**

GEOGRAPHY

Geography Degree: AA

Program code: SAC.GEOG.AA

Program Control Number: 04258

The associate degree curriculum in geography provides students with an interdisciplinary background for entry into a curriculum at a four-year institution leading to a baccalaureate degree with career opportunities in a wide range of jobs in government, such as Bureau of Census, C.I.A., D.E.A., U.S.G.S., Department of Immigration and Naturalization, Department of State; and in private industry, such as planning market research, land use analysis, transportation, travel and tourism, and education.

Learning Outcome(s):

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

1. Recognize the interrelatedness of the components of the earth system, processes, and human characteristics found on the planet and analyze these from a spatial perspective and through the use of the scientific method.

Major requirements for the associate of arts degree:

Required Core Courses:		**Units:**	**10**
GEOG 100	World Regional Geography	3	
–OR–			
GEOG 100H	Honors World Regional Geography	3	
–AND–			
GEOG 101	Physical Geography	3	
–OR–			
GEOG 130	Introduction to Weather and Climate	3	
–AND–			
GEOG 102	Cultural Geography	3	
–OR–			
GEOG 140	California Geography	3	
–OR–			
GEOG 155	Introduction to Geographic Information Systems	3	
–AND–			
GEOG 101L	Physical Geography Laboratory	1	

Category A:

Option one: Choose one class, minimum 3 units.

Option two: Choose two classes, minimum 6 units.

		Units:	**3-6**
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
ANTH 103	Introduction to Archaeology	3	
ECON 120	Principles/Macro	3	
ECON 121	Principles/Micro	3	
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
HIST 102	World Civilizations Since the 16th Century	3	
–OR–			
HIST 102H	Honors World Civilizations Since the 16th Century	3	
HIST 105	Ancient Mesoamerican Civilization	3	
HIST 133	History of California	3	
HIST 150	Latin American Civilization to Independence	3	
HIST 151	Modern Latin American Civilization	3	
HIST 153	History of Mexico	3	

IDS 117H	Honors Introduction to Global Studies	3
POLT 201	Introduction to Comparative Politics	3
POLT 220	International Politics	3

Category B: If option one chosen in A, choose a minimum of six units from B; if option two chosen in A, choose three units from B. **Units: 3-8**

ANTH 101	Introduction to Physical Anthropology	3
ASTR 109	Introduction to the Solar System	3
ENVR 140	Environmental Geology	3
ENVR 259	Environmental Biology	4
GEOL 101	Introduction to Geology	4
GEOL 101L	Introduction to Geology Laboratory	1
BIOL 259	Environmental Biology	4
GEOL 140	Environmental Geology	3
GEOL 150	Introduction to Oceanography	3
–OR–		
GEOL 150H	Honors Introduction to Oceanography	3
GEOL 201	Introduction to Historical Geology	4
BUS 150	Introduction to Information Systems and Applications	3
BIOL 109	Fundamentals of Biology	3
–OR–		
BIOL 109H	Honors Fundamentals of Biology	3

Total: 19-21

Geography Degree for Transfer: AA-T

Program code: SAC.GEOG.AAT

Program Control Number: 32343

The Associate in Arts in Geography for Transfer (AA-T) prepares students to move into a curriculum at a 4-year institution leading to a baccalaureate degree in Geography. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Geography, students will have an understanding of both the breadth and depth of the spatial perspective that is central to geographic study. This knowledge will be grounded in the comprehension of geographic principles, concepts, ideas, theories, research, terminology, and relationships. Students will also have the capacity to write and think in a critical and analytical way about issues pertaining to earth surface study, human/environment interaction and impact, and local, regional, and global relationships and associations.

Learning Outcome(s):

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

1. Recognize the interrelatedness of the components of the earth system, processes, and human characteristics found on the planet and analyze these from a spatial perspective and through the use of the scientific method.

Required Core Courses: **Units: 9**

GEOG 102	Cultural Geography	3
GEOG 101	Physical Geography	3
GEOG 100	World Regional Geography	3
–OR–		
GEOG 100H	Honors World Regional Geography	3

List A - select 6-7 units

GEOG 101L	Physical Geography Laboratory	1
GEOG 130	Introduction to Weather and Climate	3
GEOG 140	California Geography	3
GEOG 155	Introduction to Geographic Information Systems	3

List B - select 6 units Any course not selected in list A above

ANTH 100	Introduction to Cultural Anthropology	3
ANTH 100H	Honors Introduction to Cultural Anthropology	3
GEOL 101	Introduction to Geology	3

Total: 21-22

GEOLOGY

Geology Degree: AS

Program code: SAC.GEOL.AS

Program Control Number: 04246

The associate degree curriculum in geology prepares students for transfer to a four-year institution leading to a baccalaureate degree in geoscience majors. Geoscientists find employment with environmental companies that clean up and monitor pollution problems. Geotechnical companies also employ geoscientists to evaluate risk from earthquakes, landslides, and other geological hazards. Oil and mining companies employ geoscientists to find new resources. The federal, state, county, and city governments also employ geoscientists for many of the same functions, as well as geoscience research, and to monitor compliance with environmental regulations. Universities, colleges, and museums offer opportunities for teaching and/or research.

Please see a counselor for specific course requirements for your transfer university.

Learning Outcome(s):

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

1. Students will demonstrate proficiency and knowledge with regards to the physical structure of the Earth and the materials that make up the Earth through the paradigm of plate tectonics.

Required Core Courses: **Units:**

GEOL 101	Introduction to Geology	3
GEOL 101L	Introduction to Geology Laboratory	1
GEOL 140	Environmental Geology	3
–OR–		
GEOL 150	Introduction to Oceanography	3
–OR–		
GEOL 150H	Honors Introduction to Oceanography	3
GEOL 201	Introduction to Historical Geology	4
CHEM 219	General Chemistry	5

Electives: Select a minimum of 8 units from the courses below

BIOL 211	Cellular and Molecular Biology	5
BIOL 212	Animal Diversity and Ecology	5
BIOL 214	Plant Diversity and Evolution	5
CHEM 229	General Chemistry and Qualitative Analysis	5
MATH 180	Single Variable Calculus I	4
–OR–		
MATH 180H	Honors Single Variable Calculus I	4
MATH 185	Single Variable Calculus II	4

and any course numbered 100 or higher in Earth Science, Geology, or Physics, except Earth Science 110 and 115 or Physics 109.

Total: 24

Geology Degree for Transfer: AS-T

Program code: SAC.GEOL.AST

Program Control Number: 32144

The Associate in Science in Geology for Transfer (AS-T in Geology) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Geology. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Science in Geology for Transfer (AS-T in Geology) degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Geology major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the Associate in Science in Geology for Transfer (AS-T in Geology), students will have a foundation necessary for continued training at the upper division level for geology majors. It is a starting point for students who are preparing for careers in education, geoscience research, and government, where scientific and technical skills are in great demand.

Learning Outcome(s):

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

1. Students will demonstrate proficiency and knowledge with regards to the physical structure of the Earth and the materials that make up the Earth through the paradigm of plate tectonics.

Required Core Courses:		**Units:**	**26**
GEOL 101	Introduction to Geology	3	
GEOL 101L	Introduction to Geology Laboratory	1	
GEOL 201	Introduction to Historical Geology	4	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
CHEM 229	General Chemistry and Qualitative Analysis	5	
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
		Total:	**26**

HISTORY

History Degree: AA

Program code: SAC.HIST.AA

Program Control Number: 04257

The associate degree curriculum in history provides a basic program to aid students in thinking critically about one's self, one's cultural heritage, social and economic processes, and national and international affairs.

Completion of the degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree and eventually into careers with government agencies, libraries or museums, research programs in business, journalism, international organizations, archival work, and work in law, international relations, and business. Consult a counselor for information about course requirements for specific universities.

Learning Outcome(s):

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

1. Students who participate in SAC's history program will complete necessary requirements to complete their academic degrees or transfer to a 4-year institution, while simultaneously acquiring knowledge and skills that will help them participate more fully in their workplace and in their community.
2. Students in SAC's History Program will gain an understanding of social, historical, and political situations of the past in order to place current local, national, and international events in an historical context.
3. Students in SAC's History Program will apply critical thinking in the creation, analysis and interpretation of past and current events, and will demonstrate their thinking and reasoning skills by completing a variety of assigned exercises.

Required Core Courses:		**Units:**	
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
HIST 102	World Civilizations Since the 16th Century	3	
–OR–			
HIST 102H	Honors World Civilizations Since the 16th Century	3	
HIST 120	The United States to 1865	3	
–OR–			
HIST 120H	Honors The United States to 1865	3	
HIST 121	The United States since 1865	3	
–OR–			
HIST 121H	Honors The United States since 1865	3	
Required electives: Choose 3 electives from the following group. Must include at least one History class.		**Units:**	**9**
ECON 120	Principles/Macro	3	
GEOG 100	World Regional Geography	3	
–OR–			
GEOG 100H	Honors World Regional Geography	3	
HIST 123	African American History to 1865	3	
HIST 124	Mexican American History in the United States	3	
–OR–			
HIST 124H	Honors Mexican American History in the United States	3	
HIST 127	Women in U.S. History	3	
HIST 133	History of California	3	
HIST 146	African American History from 1863 to the Present	3	
HIST 150	Latin American Civilization to Independence	3	
HIST 151	Modern Latin American Civilization	3	
HIST 163	Introduction to Southeast Asian History	3	
PHIL 112	World Religions	3	
PHIL 118	History of Philosophy	3	
POLT 101	Introduction to American Governments	3	
–OR–			
POLT 101H	Honors Introduction to American Governments	3	
POLT 200	American Political Thought	3	
POLT 201	Introduction to Comparative Politics	3	
POLT 220	International Politics	3	
		Total:	**21**

History Degree for Transfer: AA-T

Program code: SAC.HIST.AAT

Program Control Number: 32395

The Associate in Arts in History for Transfer (AA-T in History) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in History. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T in History also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the History major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.**

Upon completion of the AA-T in History, students will have an understanding of both the breadth and depth of the history discipline. This knowledge will be grounded in the comprehension of history principles, concepts, ideas, theories, research, and terminology. Students will also have the capacity to write and think in a critical and analytical way about issues pertaining to history, economics, politics, culture and understanding the relationship between the social sciences and humanities.

Learning Outcome(s):

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

1. Complete necessary requirements to complete their academic degrees or transfer to a 4-year institution, while simultaneously acquiring knowledge and skills that will help them participate more fully in their workplace and in their community.
2. Gain an understanding of social, historical, and political situations of the past in order to place current local, national, and international events in an historical context.
3. Apply critical thinking in the creation, analysis and interpretation of past and current events, and will demonstrate their thinking and reasoning skills by completing a variety of assigned exercises.

Required Core Courses: 6 units		**Units:**
HIST 120	The United States to 1865	3
–OR–		
HIST 120H	Honors The United States to 1865	3
–AND–		
HIST 121	The United States since 1865	3
–OR–		
HIST 121H	Honors The United States since 1865	3
List A – select 2 courses: 6 units		
HIST 101	World Civilizations to the 16th Century	3
–OR–		
HIST 101H	Honors World Civilizations to the 16th Century	3
–AND–		
HIST 102	World Civilizations Since the 16th Century	3
–OR–		
HIST 102H	Honors World Civilizations Since the 16th Century	3
List B –		
Select 1 course from each area: 6 units Area 1: 3 units		
HIST 150	Latin American Civilization to Independence	3
–OR–		
HIST 151	Modern Latin American Civilization	3
–OR–		
HIST 153	History of Mexico	3
–OR–		
HIST 163	Introduction to Southeast Asian History	3
–OR–		
HIST 124	Mexican American History in the United States	3
–OR–		
HIST 124H	Honors Mexican American History in the United States	3
–OR–		
HIST 125	Native Americans in the U.S.	3
–OR–		
HIST 127	Women in U.S. History	3
–OR–		
HIST 146	African American History from 1863 to the Present	3
–OR–		
HIST 181	Survey of Chicana/Latina Women's History	3
–OR–		
SPAN 102	Elementary Spanish II	5
-OR-		
SPAN 102H	Honors Elementary Spanish II	5
Area 2: 3 units		
HIST 118	Social and Cultural History of the United States	3
–OR–		
HIST 133	History of California	3
–OR–		
GEOG 100	World Regional Geography	3
–OR–		
GEOG 100H	Honors World Regional Geography	3
	Total:	**21**

INTERNATIONAL BUSINESS

International Business Degree: AA

Program code: SAC.IB.AA

Program Control Number: 09209

The Associate Degree In International Business is designed to provide students and business practitioners, including those already involved in International Business, with practical "hands' on" exposure to the world of international business. Classes focus on businesses that import and export. Students learn the fundamentals of international business, culture, marketing, finance, law and logistics. Different countries and cultures are explored.

The program prepares students to take the NASBITE Certified Global Business (CGBP) Credential Exam.

Learning Outcome(s):

The goal of the International Business degree program is to prepare students for careers in the global trade marketplace by combining a basic academic foundation in import, export global logistics, international management, international marketing and regional business studies combined with the benefit of experiential learning by using practical tools in use by industry and commerce.

Required Core Courses:		**Units:**	**12**
BUS 100	Fundamentals of Business	3	
–OR–			
ENTR 100	Introduction to Innovation and Entrepreneurship	3	
BUS 106	Culture and International Business - Kiss, Bow or Shake Hands	3	
BUS 125	Introduction to International Business	3	
BUS 222	Business Writing	3	
–OR–			
MGMT 122	Business Communications	3	
Logistics		**Units:**	
BUS 115	Global Shipping and Logistics	3	

Management and Law		**Units:**
BUS 117	Global Commerce and Management	3
–OR–		
PARA 117	Law of Global Commerce and Management	3
Marketing		**Units:**
BUS 116	Global Marketing: Selling Around the World	3
–OR–		
MKTG 116	Global Marketing: Selling Around the World	3
Regional Studies		**Units:**
BUS 119	Doing Business in Latin America and Asia	3
Import		**Units:**
BUS 118	Importing: Global Sourcing and Markets	3
Elective Courses		
Select ONE course from the following:		**Units: 3-4**
ACCT 101	Financial Accounting	4
–OR–		
BUS 120	Principles of Management	3
–OR–		
MGMT 120	Principles of Management	3
–OR–		
MKTG 113	Principles of Marketing	3
		Total: 30-31

International Business: Certificate of Achievement *(Transcripted)*

Program code: SAC.IB.CA

Program Control Number: 21750

The associate degree and certificate in international business is designed to provide students and business practitioners, including those already involved in International Business, with practical "hands' on" exposure to the world of international business. Classes focus on businesses that import and export. Students learn the fundamentals of international business, culture, marketing, finance, law and logistics. Different countries and cultures are explored. Specialized topic areas (for example, marketing, financing, law and logistics) are a sequence of short classes that should be taken in order. The program prepares students to take the NASBITE Certified Global Business (CGBP) Credential Exam

Learning Outcome(s):

1. The goal of the International Business certificate program is to prepare students for careers in the global trade marketplace by combining a basic academic foundation in import, export global logistics, international management, international marketing and regional business studies combined with the benefit of experiential learning by using practical tools in use by industry and commerce.

Introductory Courses		**Units:**	**3**
BUS 100	Fundamentals of Business	3	
–OR–			
ENTR 100	Introduction to Innovation and Entrepreneurship	3	
Required Core Courses:		**Units:**	**6**
BUS 106	Culture and International Business - Kiss, Bow or Shake Hands	3	
–AND–			
BUS 125	Introduction to International Business Logistics	3	
Logistics		**Units:**	
BUS 115	Global Shipping and Logistics	3	
International Management and Law		**Units:**	**3**
BUS 117	Global Commerce and Management	3	
–OR–			
PARA 117	Law of Global Commerce and Management	3	
International Marketing		**Units:**	**3**
BUS 116	Global Marketing: Selling Around the World	3	
–OR–			
MKTG 116	Global Marketing: Selling Around the World	3	
Area Concentration		**Units:**	**3**
BUS 119	Doing Business in Latin America and Asia	3	
Import		**Units:**	**3**
BUS 118	Importing: Global Sourcing and Markets	3	
		Total:	**24**

Global Business and Entrepreneurship: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.GBE.CERT

The Global Business and Entrepreneurship Certificate is designed to provide students with a general overview of four areas of business including management, marketing, international, and entrepreneurship.

In business today, knowledge of how functional areas work together is deemed critical by employers. It is no longer sufficient to understand only one part of how a business operates. This certificate provides students with a well-rounded overview of the concepts, techniques, and technologies required to succeed in today's global and entrepreneurial business environments.

Learning Outcome(s):

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

1. Students will demonstrate an understanding of and successfully adapt to a multicultural business environment.
2. Students will be able to create a marketing plan for a business to compete successfully in the global marketplace.
3. Students will be able to start, run, or manage an international business operation for a small or mid-size company (SME).

Required Core Courses:		**Units:**	
BUS 100	Fundamentals of Business	3	
BUS 125	Introduction to International Business	3	
ENTR 100	Introduction to Innovation and Entrepreneurship	3	
MKTG 113	Principles of Marketing	3	
MGMT 120	Principles of Management	3	
–OR–			
BUS 120	Principles of Management	3	
		Total:	**15**

Global Trade Skills: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.GLTRA.CERT

The Global Trade Skills Certificate teaches students the transaction level basics of global trade: international logistics, international marketing, international finance, international law, and importing. This stackable certificate is the first step in achieving the International Business Certificate and preparing for the NASBITE Certified Global Business Professional (CGBP) credential exam.

Learning Outcome(s):

1. The student will learn the skills required for an entry level position in career field of Global Trade.
2. The student will be able to clearly communicate verbally and in writing using global trade terminology.

Required Core Courses:

BUS 110	Export Pricing, Quotations and Terms of Trade	1
BUS 111	International Business Documentation - Beginning	1
BUS 113	International Transportation	1
BUS 114	International Documentation and Supply Chain Management	1
BUS 141	The Globalization of Marketing	1
BUS 142	International Market Research and Planning	1
BUS 143	Packaging, Pricing and Promoting Products/ Services for Export	1
BUS 145	Channels of Distribution in International Markets	1
BUS 147	International Commercial Agreements and Distribution Law	1
BUS 148	International Intellectual Property Law	1
BUS 149	The Law of Global Commerce	1
BUS 163	International Methods of Payment and Letters of Credit	1
BUS 164	Alternative Financing Techniques for International Trade	1
BUS 165	International Trade Finance and Insurance	1
BUS 166	Financing an Import/Export Business	1
BUS 180	Finding and Evaluating Products for Import	1
BUS 182	Classifying Imports and Clearing US Customs	1
	Total:	**17**

Survey of International Business: Certificate of Proficiency

(Untranscripted)

Program code: SAC.SIB.CERT

The Survey of International Business Certificate provides students with a short practical introduction to the exciting world of international trade. This is a stackable certificate which requires completion of the core courses that are required for the International Business Certificate and the Associate Degree.

Learning Outcome(s):

1. Students will be aware of the key terminology required to conduct international trade. Students will understand how the functional areas of business are effected by the global economy and the career opportunities available in international business.

Required Core Courses:		**Units:**	**9**
BUS 100	Fundamentals of Business	3	
BUS 125	Introduction to International Business	3	
BUS 106	Culture and International Business - Kiss, Bow or Shake Hands	3	
	Total:		**9**

KINESIOLOGY

Kinesiology Degree: AA

Program code: sac.kin.aa

Program Control Number: 4200

This program is designed to prepare students for transfer into baccalaureate degree programs in Kinesiology or entry-level health, sports, and fitness-related jobs. The focus is on preparing students to be able to articulate understanding of scientific foundations of Kinesiology, distinguish between Kinesiology-related careers, and demonstrate movement skills competence.

Students receive exposure to the sources of knowledge in Kinesiology through scholarly study of physical activity and physical activity experience. The student is introduced to courses that promote healthy lifestyle choices and an active mind and body. Curriculum content may include the introduction to Kinesiology, nutrition, health awareness, sports medicine, physiology of exercise, and activity courses. The following classes can lead to obtaining a degree in the areas of exercise science, sports medicine-athletic training, physical therapy, kinesiology, sports management, coaching, or allied health-related and fitness-related vocations.

TRANSFER PLAN

Courses required to complete an associate degree at Santa Ana College in Kinesiology may not fulfill courses required by four-year universities to complete a baccalaureate degree. The Kinesiology Department at Santa Ana College recommends that students interested in transferring to a four-year institution consult with a counselor prior to beginning their courses of study.

Learning Outcome(s):

1. Students will be able to describe and distinguish between career pathways and the many sub-disciplines within Kinesiology
2. Students will be able to apply context specific knowledge of functional anatomy, physiology, psychosocial, and cultural influences to understanding human physical activity.
3. Students will be able to explain the importance of physical activity in fostering optimal health & fitness across the human lifespan.

Required Core Courses:		**Units:**	**9**
KNPR 101	Introduction to Kinesiology	3	
KNHE 101	Healthful Living	3	
–OR–			
KNHE 102	Women’s Health Issues	3	
KNHE 104	Nutrition and Fitness	2	
KNHE 106	Cardiopulmonary Resuscitation and First Aid	3	
BIOL 149	Human Anatomy and Physiology	4	
–OR–			
BIOL 239	General Human Anatomy	4	

Movement Based Courses (6 units) Must include 6 units from at least 3 different areas: KNAC, KNAD, KNAF, KNAQ, KNFI, and/or KNIA. For a complete description of Kinesiology physical activity courses refer to the Santa Ana College Catalog. Make an appointment with the Kinesiology Department Chair to discuss matching active participatory courses to your career goals.

Professional Studies Elective Courses. Complete a minimum of 4 classes. (8.5-12 units)		Units:	8.5-12
KNPR 125	Sport Psychology	3	
KNPR 140	Movement Education for Elementary School Children	3	
KNPR 150	Sport and Society	3	
KNPR 160	Management of Physical Education and Sport	3	
KNPR 170	Sport Ethics	3	

KNPR 201	Movement Anatomy	3
KNPR 202	Introduction to Personal Training	3
KNPR 205	Techniques of Exercise Leadership	1
KNPR 209	Exercise for Special Populations	2
KNPR 203	Physiology of Cardiovascular Exercise	2
–AND–		
KNPR 211	Practicum in Fitness Evaluation I	0.5
KNPR 207	Physiology of Resistance Training	2
–AND–		
KNPR 213	Practicum in Fitness Evaluation II	0.5
KNSM 101	Introduction to Sports Medicine	3
KNPR 110	Kinesiology-related Occupational Work Experience	1-8
	Total:	**29.5-33**

Kinesiology Degree for Transfer: AA-T

Program code: SAC.KIN.AAT

Program Control Number: 32096

The proposed Associate in Arts in Kinesiology for Transfer (AA-T in Kinesiology) is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Kinesiology or similar major. Please consult a counselor regarding specific course requirements for your transfer institution. This degree provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Kinesiology major. **See page 29** **for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Kinesiology degree students will be able to articulate understanding of scientific foundations of Kinesiology, distinguish between Kinesiology-related careers, and demonstrate movement skills competence. Students will gain knowledge and movement-based experience which prepares them in pursuit of a bachelor's or master's degree and or professional certification in exercise science, nutrition, health promotion, sports medicine athletic training, physical therapy, and coaching or fitness related fields.

Learning Outcome(s):

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

1. Students will apply scientific foundations to understanding human movement.
2. Students will discuss the importance of physical activity in daily life and the implications for Kinesiology-related careers.
3. Students will demonstrate competence in 3 areas of physical activity experience.

Required Core Courses (14 units): Units: 11

KNPR 101	Introduction to Kinesiology	3
BIOL 239	General Human Anatomy	4
BIOL 249	Human Physiology	4

Movement-based Courses (minimum 3 units)

Select a maximum of one (1) course from the Aquatics area: Units: 3

KNAQ 201A	Beginning Swimming	0.5-1
KNAQ 201B	Lap Swimming	0.5-1
KNAC 226A	Beginning Water Polo	0.5-1

Select a maximum of one (1) course from the Combative area:

KNAC 140A	Beginning Karate	0.5-1
KNAC 155A	Beginning Self-Defense	0.5-1
KNAC 169A	Beginning Wrestling	0.5-1
KNAF 156A	Beginning Cardio Kickboxing	0.5-1

Select a maximum of one (1) course from the Dance area:

DNCE 106A	Introduction to Modern Dance	1
DNCE 106B	Introduction to Modern Dance	1
DNCE 108A	Introduction to Ballet	1
DNCE 108B	Introduction to Ballet	1
DNCE 110	Beginning Mexican Folk Dance	1
DNCE 111	Intermediate Mexican Folk Dance	1
DNCE 112	Ethnic Dance	1
DNCE 113A	Flamenco Dance I	1
DNCE 113B	Flamenco Dance II	1
DNCE 117	Introduction to Middle Eastern Dance	1
DNCE 118	Introduction to Caribbean and Latin Dance Styles	1
DNCE 119A	Introduction to Jazz Dance	1
DNCE 119B	Introduction to Jazz Dance	1
DNCE 120A	Introduction to Hip-Hop Dance	1
DNCE 120B	Intermediate Hip-Hop Dance	1
DNCE 122	Commercial Contemporary Dance	1
DNCE 123	Introduction to Salsa Dance	1
DNCE 124	Intermediate Salsa Dance	1

Select a maximum of one (1) course from the Fitness area:

KNAC 123	Personal Fitness Training	1
KNAC 150A	Beginning Hatha Yoga	0.5-1
KNAC 170A	Beginning Yoga	0.5-1
KNAF 140A	Beginning Walking/Jogging for Fitness	0.5-1
KNAF 143A	Boot Camp Workout	0.5-1
KNAF 144A	Beginning Cross Training	0.5-1
KNAF 146A	Beginning Stability Ball	1
KNAF 146B	Intermediate Stability Ball Training	1
KNAF 156A	Beginning Cardio Kickboxing	0.5-1
KNAF 156B	Intermediate Cardio Kickboxing	0.5-1
KNAF 157A	Beginning Cardio Pump	0.5-1
KNAF 150A	Beginning Stretch, Flex and Tone	0.5-1
KNFI 112A	Beginning Circuit Training	1
KNFI 112B	Intermediate Circuit Training	1
KNFI 114A	Beginning Spinning	0.5-1
KNFI 114B	Intermediate Spinning	0.5-1
KNFI 115A	Beginning Cardiovascular Conditioning	0.5-1
KNFI 115B	Intermediate Cardiovascular Conditioning	0.5-1
KNFI 147A	Beginning Weight Training	0.5-1
KNFI 147B	Intermediate Weight Training	0.5-1
DNCE 109A	Pilates Mat I	1
DNCE 109B	Pilates Mat II	1

Select a maximum of one (1) course from the Individual Sports area:

KNAC 107A	Beginning Badminton	0.5-1
KNAC 160A	Beginning Tennis	0.5-1

Select a maximum of one (1) course from the Team Sports area:

KNAC 200A	Beginning Intramural-Basketball	0.5-1
KNAC 211A	Beginning Baseball	1
KNAC 211B	Intermediate Baseball	1
KNAC 220A	Beginning Basketball	1
KNAC 220B	Intermediate Basketball	1
KNAC 260A	Beginning Soccer	0.5-1
KNAC 260B	Intermediate Soccer	0.5-1

KNAC 265A	Beginning Indoor Soccer	0.5-1
KNAC 265B	Intermediate Indoor Soccer	0.5-1
KNAC 270A	Beginning Softball	1
KNAC 290A	Beginning Volleyball	1
KNAC 290B	Intermediate Volleyball	1
List A: Select two courses		**Units: 7-9**
MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4
–OR–		
CHEM 210	General, Organic and Biochemistry	5
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5
PHYS 279	College Physics I	4
PHYS 210	Principles of Physics I	4
PHYS 217	Engineering Physics I	4
KNHE 106	Cardiopulmonary Resuscitation and First Aid	3
		Total: 21-23

Fitness Specialist: Certificate of Achievement *(Transcripted)*

Program code: SAC KNFS.CA

Program Control Number: 33169

The Fitness Specialist Certificate program prepares students for employment in the fitness industry by combining a science-based academic foundation with an abundance of experiential learning. Students gain knowledge of Kinesiology principles while developing fitness assessment, exercise leadership, and individual & group exercise programming skills. The program is designed to get students into the industry as soon as possible but includes transferrable coursework for students seeking to further their education in Kinesiology-related fields.

Learning Outcome(s):

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

1. Students will select, execute, interpret, and communicate results from various fitness assessment field tests based upon age, gender, fitness level, and cultural differences.
2. Students will design a health-related or performance related program for apparently healthy individuals and several special populations.
3. Students will lead personal training sessions as well as a variety of small and large group exercise activities.

Required Core Courses:		**Units: 9**
KNPR 101	Introduction to Kinesiology	3
KNPR 202	Introduction to Personal Training	3
KNPR 205	Techniques of Exercise Leadership	1
KNPR 110	Kinesiology-related Occupational Work Experience	1-8
KNHE 104	Nutrition and Fitness	2
–OR–		
NUTR 115	Nutrition	3
–OR–		
NUTR 115H	Honors Nutrition	3
KNHE 106	Cardiopulmonary Resuscitation and First Aid	3

Select TWO of the following courses:

KNAC 140A	Beginning Karate	0.5-1
KNAC 150A	Beginning Hatha Yoga	0.5-1
KNAC 155A	Beginning Self-Defense	0.5-1
KNAC 170A	Beginning Yoga	0.5-1
KNAD 211A	Beginning Adapted Aquatics	0.5-1
KNAD 211B	Intermediate Adapted Aquatics	0.5-1
KNAF 140A	Beginning Walking/Jogging for Fitness	0.5-1
KNAF 143A	Boot Camp Workout	0.5-1
KNAF 144A	Beginning Cross Training	0.5-1
KNAF 146A	Beginning Stability Ball	1
KNAF 146B	Intermediate Stability Ball Training	1
KNAF 150A	Beginning Stretch, Flex and Tone	0.5-1
KNAF 156A	Beginning Cardio Kickboxing	0.5-1
KNAF 156B	Intermediate Cardio Kickboxing	0.5-1
KNAF 157A	Beginning Cardio Pump	0.5-1
KNFI 114A	Beginning Spinning	0.5-1
KNFI 114B	Intermediate Spinning	0.5-1
KNFI 147A	Beginning Weight Training	0.5-1
KNFI 147B	Intermediate Weight Training	0.5-1
		Total: 15-16

Kinesiology Sports Medicine: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.KNM.CERT

This program is designed to provide students with knowledge and skills that help them understand all aspects of sports medicine/ athletic training field and to prepare associate degree seeking students for transfer into Athletic Training.

Learning Outcome(s):

1. Students will be able to assess sport injury related information, then interpret and articulate that information to players, coaches, Athletic Trainers, and medical personnel.
2. Students will be able to recognize and select appropriate athletic injury management response.

Required Core Courses:		**Units:**
KNHE 101	Healthful Living	3
KNHE 104	Nutrition and Fitness	2
KNHE 106	Cardiopulmonary Resuscitation and First Aid	3
KNSM 101	Introduction to Sports Medicine	3
KNPR 125	Sport Psychology	3
KNPR 110	Kinesiology-related Occupational Work Experience	1-8
		Total: 15

LAW

Santa Ana College has several programs and certificates for students who are interested in learning about the law, working in the legal field or even becoming a lawyer. Santa Ana College offers certificates in: Legal Office Technician, Legal Office Interpreting: Spanish/English, and Pathway to Law School. The college also has a paralegal program approved by the American Bar Association where students can earn an associate degree or a certificate; this program is listed under "P" for paralegal. Each of these programs and certificates gives students a chance to learn about the legal field, prepare for additional degrees, and work in a legal environment.

Legal Office Interpreting Spanish: Certificate of Achievement *(Transcripted)*

Program code: SAC.LOIS.CA

Program Control Number: 35705

The certificate of achievement curriculum for Legal Office Interpreting Spanish is designed to prepare the student for employment in a legal setting interpreting Spanish to English and English to Spanish. Students will be prepared for employment in law offices, court reporting services and the courts, both on the State and Federal level. Students will have a basic understanding of legal terminology, ethics and legal procedures.

Upon successful completion of the program, students will:

Understand the Ethics and regulations of the legal profession in California by completing LAW 100 or PARA 100 and PARA 121.

Students will understand basic terminology used in the law office and courts by completing the LAW 110.

Students will demonstrate an entry level proficiency in legal interpretation (Spanish/ English) by completion of LAW 058 or BA 058.

Learning Outcome(s):

1. Students will have a basic understanding of legal terminology in both English and Spanish.
2. Students will have a basic understanding of the "ethics" and California regulations of the legal profession.

Required Core Courses:		**Units: 11-14**
LAW 058	Legal Interpreting and Translation Spanish/English	3
–OR–		
BA 058	Legal Interpretation and Translation-Spanish/English	3
LAW 100	Introduction to Legal Studies	3
–OR–		
PARA 100	The Paralegal Profession	3
LAW 110	Legal Terminology	2
LAW 299	Cooperative Work Experience Education - Occupational	1-4
PARA 121	Ethics and Professional Responsibility	2
		Total: 11-14

Legal Office Technician: Certificate of Achievement *(Transcripted)*

Program code: SAC.LOT.CA

Program Control Number: 35673

This certificate program will prepare the student with technical office skills necessary for employment in a law office as an assistant to attorneys and paralegals. This program is not designed to prepare students for the practice of law, nor is it designed to meet the requirements of Business and Professions code section 5450 (Paralegal Qualifications).

Learning Outcome(s):

1. Understand the ethical and professional responsibilities of the legal profession by completing PARA 100 or LAW 100 and PARA 121.
2. Students will understand the procedures of a law office by completing PARA 101.
3. Students will achieve an entry level proficiency in the technology utilized in a law office by completing BA 179 Introduction to Microsoft Office and BA 163 Adobe Acrobat.
4. Students will understand proper formatting, grammar, and punctuation of business documents by completing BA 017 Business Writing Skills.
5. Students will understand basic Accounting procedures by completing Acct 035 Quickbooks I.

Required Core Courses:		**Units: 21-25**
LAW 100	Introduction to Legal Studies	3
–OR–		
PARA 100	The Paralegal Profession	3
PARA 101	Law Office Management	2
LAW 121	Legal Ethical Reasoning	3
–OR–		
PARA 121	Ethics and Professional Responsibility	2
LAW 110	Legal Terminology	2
BA 017	Business Writing Skills	3
–OR–		
BUS 222	Business Writing	3
–OR–		
MGMT 122	Business Communications	3
BA 179	Introduction to Microsoft Office	3
ACCT 035	QuickBooks I	2
PARA 105	Cooperative Work Experience Education - Occupational	1-4
–OR–		
PARA 299	Cooperative Work Experience Education	1-4
–OR–		
LAW 299	Cooperative Work Experience Education - Occupational	1-4
BA 163	Adobe Acrobat	3
		Total: 21-25

Pathway to Law School: Certificate of Achievement

(Transcripted)

Program code: SAC.LAW.CA

Program Control Number: 33855

Santa Ana College is one of a select group of community colleges chosen to participate in the Pathway to Law School Program (2+2+3). This program is sponsored by the California State Bar's Council on Access and Fairness (COAF) and the California Community College Chancellor's Office. This program is an unprecedented effort within California higher education to enhance opportunities and advancement in the legal profession for diverse populations, particularly those who have traditionally been underrepresented This program is designed to prepare students to successfully apply to law school. There are no specific requirements to enter the program, but students should have an interest in the law and a strong determination to succeed at Santa Ana College and earn a bachelor's degree. For more information please visit the following websites: **sites.google.com/site/calbardream/**or **DiscoverLaw.org**. Any student who is interested in being part of the SAC Pathway to Law School Program, attending law school or receiving more information should attend one of our orientation sessions held prior to the start of each semester. Students can also request more information about the program from Professor Kristen Robinson at Robinson_Kristen@sac.edu. (Participation in this program does not guarantee admission to any participating university or law school.)

Any student with a goal to enter law school should complete the Pathway to Law School program. This program is recognized as part of the California State Bar and California Community College State Chancellor's office initiative "Pathway to Law School."

Students interested in a career in law should also complete their Associate's Degree in an academic major leading to transfer to a four-year institution. The Pathway to Law School certificate provides students with an opportunity to major in the subject of their choice while improving their abilities in areas that are associated with success in law school and the practice of law.

Participation in this program does not guarantee admission to any participating university or law school.

Learning Outcome(s):

1. Students will understand the requirements to successfully enroll in Law School
2. Students will understand career opportunities in the legal profession.

Select one from the following:		**Units:**	**3**
LAW 100	Introduction to Legal Studies	3	
–OR–			
PARA 100	The Paralegal Profession	3	
Select one from the following:		**Units:**	**4**
ENGL 103	Critical Thinking and Writing	4	
–OR–			
ENGL 103H	Honors Critical Thinking and Writing	4	
–OR–			
PHIL 110	Critical Thinking	4	
–OR–			
PHIL 110H	Honors Critical Thinking	4	
–OR–			
PHIL 111	Introductory Logic	4	
Select one from the following:		**Units:**	**4-4.5**
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
–OR–			
PSYC 210	Statistics for the Behavioral Sciences	4	
–OR–			
MATH 221	Statistics and Probability with Support	4.5	
Select one from the following:		**Units:**	**4**
ENGL 101	Freshman Composition	4	
–OR–			
ENGL 101H	Honors Freshman Composition	4	
Select one from the following:		**Units:**	**3**
HIST 120	The United States to 1865	3	
–OR–			
HIST 120H	Honors The United States to 1865	3	
Select one from the following:		**Units:**	**3**
POLT 101	Introduction to American Governments	3	
–OR–			
POLT 101H	Honors Introduction to American Governments	3	
Select one from the following:		**Units:**	**3**
BUS 105	Legal Environment of Business	3	
–OR–			
BUS 101	Business Law	3	
–OR–			
LAW 105	The Legal Environment of Business	3	
Required Course		Units:	2-3
PARA 121	Ethics and Professional Responsibility	2	
–OR–			
PARA 121	Legal Ethical Reasoning	3	
–OR–			
LAW 121	Legal Ethical Reasoning	3	
–OR–			
Select one cooperative work experience course from the following:		**Units:**	**1-4**
LAW 299	Cooperative Work Experience Education - Occupational 1-4		
–OR–			
PARA 105	Cooperative Work Experience Education - Occupational	1-4	
–OR–			
PARA 299	Cooperative Work Experience Education	1-4	
Select one from the following:		**Units:**	**3-4**
CMST 140	Argumentation and Debate	3	
–OR–			
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
		Total:	**30-35.5**

LIBERAL ARTS DEGREE

This is a diversified degree designed for students desiring a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". The degree allows students to develop an appreciation and understanding of the beauty and values that have shaped and enriched our culture. The program of study also enables students to develop intellectual maturity, and a deeper understanding of themselves and the American heritage. This program provides excellent preparation for a variety of personal and professional goals. Please consult a counselor for educational planning and information regarding specific goals.

I. Requirements:

Complete general education Plan A (associate degree only, nontransfer), B (CSU-GE Breadth, CSU transfer), or C (IGETC, UC or CSU transfer) as related to your educational goal. Complete a minimum of 18 units from a single Area of Emphasis listed below. For depth of study, students are strongly encouraged to complete two or more courses in a single discipline as part of their 18 units. (Courses in the chosen "Area of Emphasis" may also be applied toward general education areas on Plan A, B, and C).

Note: Although a course may be listed in more than one area of emphasis of the Liberal Arts degree, it may only be used to meet a requirement for a single emphasis.

Complete all other associate degree requirements for Santa Ana College.

II. Areas of Emphasis:

1. American Studies

Program code: SAC.LAAS.AA

Program Control Number: 18580

These courses emphasize the peoples, cultures, institutions, and cultural trends of the United States. Students will examine American culture as a whole from various perspectives. Students will also learn how this country has been shaped by a variety of disciplines while recognizing the diversity of our culture. This emphasis may be of interest to those planning to pursue careers in business, communications, government service, law, social services, and teaching.

NOTE: Although a course may be listed in more than one area of emphasis of the Liberal Arts degree, it may only be used to meet a requirement for a single emphasis

Learning Outcome(s):

1. Students will study American culture as a whole from various perspectives.
2. Students will examine the formation of our country while recognizing the diversity of our culture.

		Units:	**18**
ASL 110	American Sign Language I	4	
ASL 111	American Sign Language II	4	
ASL 116	Introduction to Deaf Studies	3	
ASL 210	American Sign Language III	4	
ASL 211	American Sign Language IV	4	
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
ANTH 104	Language and Culture	3	
-OR-			
ANTH 104H	Honors Language and Culture	3	
ANTH 125	Native Americans in the U.S.	3	
ART 103	Arts of Africa, Oceania, and Indigenous North America	3	
ART 104	Mexican and Chicano Art History	3	
ART 108	Contemporary Art History: Art Since Mid-Twentieth Century	3	
ASIA 101	Introduction to Asian American Studies	3	
BIOL 200	Environment of Man	3	
BLST 101	Introduction to African American Studies	3	
CHST 101	Introduction to Chicana/o Studies	3	
CDEV 110	Child, Family, and Community (DS2)	3	
CDEV 221	Living and Teaching in a Diverse Society	3	
CMST 103	Introduction to Intercultural Communication	3	
–OR–			
CMST 103H	Honors Introduction to Intercultural Communication	3	
CMST 206	Gender Communication	3	
–OR–			
CMST 206H	Honors Gender Communication	3	
CMSD 105	Mass Media and Society	3	
–OR–			
CMSD 105H	Honors Mass Media and Society	3	
CMSD 111	Media, Race and Gender	3	
CMSD 121	Introduction to Reporting and Newswriting	3	
CMPR 100	The Computer and Society	3	
CNSL 100	Lifelong Understanding and Self-Development	2	
CNSL 116	Career/Life Planning and Personal Exploration	3	
CNSL 128	Introduction to Community Activism	3	
CJ 101	Introduction to Criminal Justice	3	
-OR-			
CJ 101H	Honors Introduction to Criminal Justice	3	
CJ 107	Principles and Procedures in the Criminal Justice System	3	
DNCE 100	Dance History and Appreciation	3	
–OR–			
DNCE 100H	Honors Dance History and Appreciation	3	
DM 101	TV and Society: A Visual History	3	
DM 103	History of Film to 1945	3	
DM 104	History of Film from 1945 to Present	3	
EDUC 201	Introduction to Education	3	
ENGL 104	Language and Culture	3	
–OR–			
ENGL 104H	Honors Language and Culture	3	
ENGL 242	Survey of American Literature, 1865-Present	3	
ENGL 241	Survey of American Literature 1600-1865	3	
ENGL 245	The Image of African Americans in Literature and Films	3	
ENGL 246	Survey of Chicano Literature	3	
ENVR 200	Environment of Man	3	
ETHN 101	Introduction to Ethnic Studies	3	
-OR-			
ETHN 101H	Honors Introduction to Ethnic Studies	3	
ETHN 102	The Borderlands: Cultural Context and Intercultural Relations	3	
–OR–			
ETHN 102H	Honors the Borderlands: Cultural Context and Intercultural Relations	3	

GEOG 140	California Geography	3
HIST 118	Social and Cultural History of the United States	3
HIST 120	The United States to 1865	3
–OR–		
HIST 120H	Honors The United States to 1865	3
HIST 121	The United States since 1865	3
–OR–		
HIST 121H	Honors The United States since 1865	3
HIST 123	African American History to 1865	3
HIST 124	Mexican American History in the United States	3
–OR–		
HIST 124H	Honors Mexican American History in the United States	3
HIST 125	Native Americans in the U.S.	3
HIST 127	Women in U.S. History	3
HIST 133	History of California	3
HIST 146	African American History from 1863 to the Present	3
KNHE 101	Healthful Living	3
KNHE 102	Women's Health Issues	3
KNPR 170	Sport Ethics	3
LAW 100	Introduction to Legal Studies	3
MUS 103	Jazz in America	3
MUS 104	Rock Music History and Appreciation	3
MUS 105	Film Music Appreciation	3
NUTR 118	Cultural Foods	3
PARA 107	Principles and Procedures in the Criminal Justice System	3
POLT 101	Introduction to American Governments	3
–OR–		
POLT 101H	Honors Introduction to American Governments	3
POLT 200	American Political Thought	3
–OR–		
POLT 200H	Honors American Political Thought	3
POLT 235	Identity Politics	3
PSYC 170	Multicultural Psychology	3
SOC 112	Relationships, Marriages, and Family Dynamics	3
SOC 140	Social Problems	3
–OR–		
SOC 140H	Honors Analysis of Social Trends and Problems	3
THEA 100	Introduction to Theatre	3
THEA 120	Musical Theatre History	3
WMNS 101	Introduction to Women's Studies	3
WMNS 102	Women in America: Work, Family, Self	3
	Total:	**18**

2. Arts, Humanities and Communications

Program code: SAC.LAAHC.AA

Program Control Number: 18581

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. **A course from each of the three areas, Arts, Humanities, and Communications must be included in the 18 units selected for this emphasis.** This emphasis may be of interest to those planning to pursue careers in art history, communications, dance, deaf studies, English, languages, music, philosophy, studio art, teaching, and theatre arts.

Note: Although a course may be listed in more than one area of emphasis of the Liberal Arts degree, it may only be used to meet a requirement for a single emphasis.

Learning Outcome(s):

1. Students will evaluate and interpret the ways in which people through the ages and in different cultures have expressed their experiences and interpretations of the world around them through artistic and cultural creation.
2. Students will appraise aesthetic understanding and formulate these concepts when constructing value judgements.

Arts: Minimum of 3-4 units from this section		**Units:**	**18**
ART 100	Introduction to Art Concepts	3	
–OR–			
ART 100H	Honors Introduction to Art Concepts	3	
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3	
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3	
ART 103	Arts of Africa, Oceania, and Indigenous North America	3	
ART 104	Mexican and Chicano Art History	3	
ART 105	History of Modern Art	3	
ART 106	Asian Art History	3	
ART 107	History of Animation	3	
ART 108	Contemporary Art History: Art Since Mid-Twentieth Century	3	
ART 110	Two-Dimensional Design	3	
CMSD 103	Introduction to Visual Communications	3	
CMSD 105	Mass Media and Society	3	
–OR–			
CMSD 105H	Honors Mass Media and Society	3	
DNCE 100	Dance History and Appreciation	3	
–OR–			
DNCE 100H	Honors Dance History and Appreciation	3	
DNCE 102	Introduction to Dance Forms	3	
DNCE 105	World Dance and Cultures	3	
DM 101	TV and Society: A Visual History	3	
DM 103	History of Film to 1945	3	
DM 104	History of Film from 1945 to Present	3	
ENGL 233A	Shakespeare's Comedies and Romances	3	
ENGL 233B	Shakespeare's Tragedies and History Plays	3	
ENGL 233C	Shakespeare's Theatre	3	
IDS 121	Humanities Through the Arts	3	
MUS 101	Music Appreciation	3	

–OR–		
MUS 101H	Honors Music Appreciation	3
MUS 102	World Music	3
–OR–		
MUS 102H	Honors World Music	3
MUS 103	Jazz in America	3
MUS 104	Rock Music History and Appreciation	3
MUS 105	Film Music Appreciation	3
MUS 110	Music Fundamentals and Culture	3
MUS 111	Basic Music Theory and Musicianship I	4
PHOT 150	History of Photography	3
THEA 100	Introduction to Theatre	3
THEA 105	Theatre History 1	3
THEA 120	Musical Theatre History	3
THEA 123	Introduction to Drama and Acting	3
Humanities: Minimum 3-5 units from this section		
ANTH 104	Language and Culture	3
–OR–		
ANTH 104H	Honors Language and Culture	3
ASL 110	American Sign Language I	4
ASL 111	American Sign Language II	4
ASL 116	Introduction to Deaf Studies	3
ASL 210	American Sign Language III	4
ASL 211	American Sign Language IV	4
CHNS 101	Elementary Chinese I	5
CHNS 102	Elementary Chinese II	5
CMSD 103	Introduction to Visual Communications	3
CMSD 110	Introduction to Creative Nonfiction	4
CMSD 111	Media, Race and Gender	3
ENGL 102	Literature and Composition	4
–OR–		
ENGL 102H	Honors Literature and Composition	4
ENGL 104	Language and Culture	3
-OR-		
ENGL 104H	Honors Language and Culture	3
ENGL 220	Survey of the Bible as Literature	3
ENGL 231	Survey of English Literature I	3
ENGL 232	Survey of English Literature II	3
ENGL 233A	Shakespeare’s Comedies and Romances	3
ENGL 233B	Shakespeare’s Tragedies and History Plays	3
ENGL 233C	Shakespeare’s Theatre	3
ENGL 241	Survey of American Literature 1600-1865	3
ENGL 242	Survey of American Literature, 1865-Present	3
ENGL 243	The Modern American Novel	3
ENGL 245	The Image of African Americans in Literature and Films	3
ENGL 246	Survey of Chicano Literature	3
ENGL 270	Children’s Literature	3
ENGL 271	Survey of World Literature I	3
ENGL 272	Survey of World Literature II	3
ENGL 278	Survey of Literature by Women	3
FREN 101	Elementary French I	5
FREN 102	Elementary French II	5
FREN 201	Intermediate French I	5
–OR–		
FREN 201H	Honors Intermediate French I	5
FREN 202	ntermediate French II	5
-OR-		
FREN 202H	Honors Intermediate French II	5
HIST 101	World Civilizations to the 16th Century	3
–OR–		
HIST 101H	Honors World Civilizations to the 16th Century	3
HIST 102	World Civilizations Since the 16th Century	3
–OR–		
HIST 102H	Honors World Civilizations Since the 16th Century	3
HIST 150	Latin American Civilization to Independence	3
HIST 151	Modern Latin American Civilization	3
HIST 153	History of Mexico	3
HIST 163	Introduction to Southeast Asian History	3
IDS 121	Humanities Through the Arts	3
IDS 200	Introduction to Liberal Studies	3
ITAL 120	Elementary Italian I	5
ITAL 121	Elementary Italian II	5
JAPN 101	Elementary Japanese I	5
JAPN 102	Elementary Japanese II	5
KNPR 170	Sport Ethics	3
PHIL 106	Introduction to Philosophy	3
–OR–		
PHIL 106H	Honors Introduction to Philosophy	3
PHIL 108	Ethics	3
PHIL 112	World Religions	3
PHIL 118	History of Philosophy	3
SPAN 101	Elementary Spanish I	5
–OR–		
SPAN 101H	Honors Elementary Spanish I	5
SPAN 102	Elementary Spanish II	5
–OR–		
SPAN 102H	Honors Elementary Spanish II	5
SPAN 195A	Advanced Conversational Spanish	3
SPAN 195B	Advanced Conversational Spanish	3
SPAN 201	Intermediate Spanish I	5
–OR–		
SPAN 201H	Honors Intermediate Spanish I	5
SPAN 202	Intermediate Spanish II	5
–OR–		
SPAN 202H	Honors Intermediate Spanish II	5
VIET 101	Elementary Vietnamese I	5
VIET 102	Elementary Vietnamese II	5

Communications: Minimum of 1-4 units from this section

CMST 101	Introduction to Interpersonal Communication	3
–OR–		
CMST 101H	Honors Introduction to Interpersonal Communication	3
CMST 102	Public Speaking	3
-OR-		
CMST 102H	Honors Public Speaking	3
–OR–		
CMST 103	Introduction to Intercultural Communication	3
–OR–		
CMST 103H	Honors Introduction to Intercultural Communication	3
CMST 140	Argumentation and Debate	3
CMST 145	Group Dynamics	3
CMST 152	Oral Interpretation	3
CNSL 144	Reasoning and Problem Solving	3
ENGL 101	Freshman Composition	4
–OR–		
ENGL 101H	Honors Freshman Composition	4
ENGL 102	Literature and Composition	4
–OR–		
ENGL 102H	Honors Literature and Composition	4
ENGL 103	Critical Thinking and Writing	4
–OR–		
ENGL 103H	Honors Critical Thinking and Writing	4
EMLS 112	Advanced Composition	3
PHIL 110	Critical Thinking	4
–OR–		
PHIL 110H	Honors Critical Thinking	4
PHIL 111	Introductory Logic	4
READ 101	Introduction to Academic Reading	3
READ 101A	Modules in Academic Reading - Vocabulary	1
READ 101B	Modules in Academic Reading - Comprehension	1
READ 101C	Modules in Academic Reading - Analysis and Critical Evaluation	1
READ 101X	Acceleration to Academic Reading	3
READ 102	Academic Reading	3
READ 150	Critical Reading	3
	Total:	**18**

3. Business and Technology

Program code: SAC.LABT.AA

Program Control Number: 18582

These courses emphasize the integration of theory and practice within the fields of business and technology. Students will develop the ability to effectively manage and lead organizations.

Students will demonstrate an understanding of the place of business and technology within the global economy. Students will critically apply ethical standards to business practices and decisions. **Courses from both Business and Technology must be included in the 18 units selected for this emphasis.** This emphasis may be of interest to those planning to pursue careers in accounting, business administration, computer information systems, computer science, engineering, finance, international business, and law.

Note: Although a course may be listed in more than one area of emphasis of the Liberal Arts degree, it may only be used to meet a requirement for a single emphasis.

Learning Outcome(s):

1. Students will critique and analyze the place of business and technology within the global economy.
2. Students will examine the integration of theory and practice within the fields of business and technology.

Required Core Courses: Units: 18

Business: Minimum 2-4.5 units from this section

ACCT 102	**Managerial Accounting**	**4**
ACCT 101	Financial Accounting	4
BUS 100	Fundamentals of Business	3
BUS 101	Business Law	3
BUS 105	Legal Environment of Business	3
BUS 106	Culture and International Business - Kiss, Bow or Shake Hands	3
BUS 120	Principles of Management	3
BUS 121	Human Relations and Organizational Behavior	3
BUS 125	Introduction to International Business	3
BUS 140	Principles of Finance	3
BUS 150	Introduction to Information Systems and Applications	3
BUS 222	Business Writing	3
ECON 120	Principles/Macro	3
ECON 121	Principles/Micro	3
LAW 105	The Legal Environment of Business	3
MGMT 122	Business Communications	3
MGMT 135	Human Resource Management	3
MKTG 113	Principles of Marketing	3
MATH 140	College Algebra	4
MATH 141	College Algebra with Support	4.5
MATH 145	Finite Mathematics	4
MATH 150	Calculus for Biological, Management and Social Sciences	4
MATH 180	Single Variable Calculus I	4
–OR–		
MATH 180H	Honors Single Variable Calculus I	4
MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4
MATH 221	Statistics and Probability with Support	4.5
PARA 131	Alternate Dispute Resolution	2
PARA 133	Workers Compensation Law and Procedure	2
PARA 138	Law of Business Organizations	2
PARA 140	Immigration Law and Procedure	2
PARA 136	Real Property Law and Procedure	2
PSYC 210	Statistics for the Behavioral Sciences	4

Technology: Minimum 1.5-3 units from this section

BA 179	Introduction to Microsoft Office	3
CMPR 100	The Computer and Society	3
CMPR 105	Visual BASIC Programming	3
CMPR 121	Programming Concepts	3
CMPR 136	Building a Small Office/Home Office Network	1.5
CMPR 167	Microsoft Access	3
ENGR 100A	Introduction to Engineering	2
ENGR 100B	Introduction to Architecture/Civil Engineering/ Construction (AEC)	2
ENGR 112	Society and the Built Environment	3
	Total:	**18**

4. Kinesiology and Wellness

Program code: SAC.LAKW.AA

Program Control Number: 19268

These courses provide an understanding of kinesiology, the mechanics of the human body, and the integration of behavior and communication in the promotion of a healthy lifestyle. Students will also demonstrate knowledge of a range of physical activities. This emphasis may be of interest to those planning to pursue careers in teaching, athletic training, coaching, nutrition, and dance.

Note: Although a course may be listed in more than one area of emphasis of the Liberal Arts degree, it may only be used to meet a requirement for a single emphasis.

Learning Outcome(s):

1. Students will develop and demonstrate an understanding of the mechanics of the human body as it relates to the promotion of a healthy lifestyle.
2. Students will demonstrate knowledge of a range of physical activities.

Required Core Courses: Units: 18

a. Kinesiology and Movement: Minimum of 3 units from this section

DNCE 100	Dance History and Appreciation	3
–OR–		
DNCE 100H	Honors Dance History and Appreciation	3
DNCE 102	Introduction to Dance Forms	3
DNCE 105	World Dance and Cultures	3
KNHE 101	Healthful Living	3
KNHE 102	Women's Health Issues	3
KNHE 103	Men's Health Issues	3
KNHE 104	Nutrition and Fitness	2
KNHE 106	Cardiopulmonary Resuscitation and First Aid	3
KNHE 108	Stress Management	3
KNPR 101	Introduction to Kinesiology	3
KNPR 125	Sport Psychology	3
KNPR 150	Sport and Society	3
KNPR 155	Theory of Soccer	2
KNPR 170	Sport Ethics	3
KNPR 160	Management of Physical Education and Sport	3
KNPR 165	Theory of Softball	2
KNPR 175	Theory of Football	2
KNPR 195	Student Athlete Success	1
KNPR 200	Theory of Baseball	2
KNPR 275	Sport Psychology Applications-Football	2
KNSM 101	Introduction to Sports Medicine	3

b. Scientific and Nutrition Foundation: Minimum of 3 units from this section

ANTH 101	Introduction to Physical Anthropology	3
ANTH 101L	Physical Anthropology Laboratory	1
BIOL 109	Fundamentals of Biology	3
–OR–		
BIOL 109H	Honors Fundamentals of Biology	3
BIOL 109L	Fundamentals of Biology Laboratory	1
BIOL 115	Concepts in Biology for Educators	4
BIOL 139	Health Microbiology	4
BIOL 149	Human Anatomy and Physiology	4
BIOL 177	Human Genetics	3
BIOL 200	Environment of Man	3
BIOL 211	Cellular and Molecular Biology	5
BIOL 212	Animal Diversity and Ecology	5
BIOL 214	Plant Diversity and Evolution	5
BIOL 217	Pathophysiology	2
BIOL 229	General Microbiology	5
BIOL 239	General Human Anatomy	4
BIOL 249	Human Physiology	4
BIOL 259	Environmental Biology	4
CHEM 109	Chemistry in the Community	4
CHEM 115	Concepts in Physical Sciences for Educators	4
CHEM 209	Introductory Chemistry	4
CHEM 210	General, Organic and Biochemistry	5
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5
CHEM 229	General Chemistry and Qualitative Analysis	5
ENVR 200	Environment of Man	3
IDS 155	Human Sexuality	3
NUTR 115	Nutrition	3
-OR-		
NUTR 115H	Honors Nutrition	3
NUTR 116	Principles of Food Preparation	3
NUTR 118	Cultural Foods	3
PHYS 109	Survey of General Physics	4
PHYS 210	Principles of Physics I	4
PHYS 211	Principles of Physics II	4
PHYS 217	Engineering Physics I	4
PHYS 227	Engineering Physics II	4
PHYS 237	Engineering Physics III	4
PHYS 279	College Physics I	4
PHYS 289	College Physics II	4

c. Behavioral Development, Communication, and Diversity: Minimum of 3 units from this section

ASIA 101	Introduction to Asian American Studies	3
BLST 101	Introduction to African American Studies	3
CHST 101	Introduction to Chicana/o Studies	3
CDEV 107	Child Growth and Development (DS1)	3
CMST 101	Introduction to Interpersonal Communication	3
–OR–		
CMST 101H	Honors Introduction to Interpersonal Communication	3
CMST 102	Public Speaking	3
-OR-		
CMST 102H	Honors Public Speaking	3
CMST 103	Introduction to Intercultural Communication	3
–OR–		
CMST 103H	Honors Introduction to Intercultural Communication	3
CMST 140	Argumentation and Debate	3
CMST 145	Group Dynamics	3
CMST 206	Gender Communication	3
–OR–		
CMST 206H	Honors Gender Communication	3
CNSL 100	Lifelong Understanding and Self-Development	2
CNSL 107	The Freshman Experience	3
CNSL 116	Career/Life Planning and Personal Exploration	3
CNSL 124	College Success and Personal Growth	3
CNSL 150	Introduction to Human Services	3

CNSL 155	Skills for the Helping Professions	3
ETHN 101	Introduction to Ethnic Studies	3
-OR-		
ETHN 101H	Honors Introduction to Ethnic Studies	3
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3
PSYC 140	Introduction to Psychology of Adulthood and Aging	3
PSYC 157	Introduction to Child Psychology	3
PSYC 170	Multicultural Psychology	3
PSYC 230	Psychology and Effective Behavior	3
PSYC 240	Introduction to Social Psychology	3
PSYC 200	Introduction to Biological Psychology	3
PSYC 250	Introduction to Abnormal Psychology	3
SOC 100	Introduction to Sociology	3
–OR–		
SOC 100H	Honors Introduction to Sociology	3
SOC 112	Relationships, Marriages, and Family Dynamics	3
SOC 140	Social Problems	3
–OR–		
SOC 140H	Honors Analysis of Social Trends and Problems	3
SOC 240	Introduction to Social Psychology	3
WMNS 101	Introduction to Women's Studies	3
WMNS 102	Women in America: Work, Family, Self	3

d. Physical Activity: 6 units selected from at least three different areas

DNCE 009A	Dance Laboratory I	0.5
DNCE 102	Introduction to Dance Forms	3
DNCE 106A	Introduction to Modern Dance	1
DNCE 106B	Introduction to Modern Dance	1
DNCE 107	Dance Concert Performance	1
DNCE 108A	Introduction to Ballet	1
DNCE 108B	Introduction to Ballet	1
DNCE 109A	Pilates Mat I	1
DNCE 109B	Pilates Mat II	1
DNCE 109C	Pilates Mat III	1
DNCE 110	Beginning Mexican Folk Dance	1
DNCE 111	Intermediate Mexican Folk Dance	1
DNCE 112	Ethnic Dance	1
DNCE 113A	Flamenco Dance I	1
DNCE 113B	Flamenco Dance II	1
DNCE 117	Introduction to Middle Eastern Dance	1
DNCE 118	Introduction to Caribbean and Latin Dance Styles	1
DNCE 119A	Introduction to Jazz Dance	1
DNCE 119B	Introduction to Jazz Dance	1
DNCE 120A	Introduction to Hip-Hop Dance	1
DNCE 120B	Intermediate Hip-Hop Dance	1
DNCE 122	Commercial Contemporary Dance	1
DNCE 123	Introduction to Salsa Dance	1
DNCE 124	Intermediate Salsa Dance	1
DNCE 130	Dance Improvisation	1
DNCE 132	Dance Stretch	0.5
DNCE 140	Dance Repertory Workshop	1
DNCE 201A	Ballet I	2
DNCE 201B	Ballet II	2
DNCE 202A	Choreography	3
DNCE 202B	Choreography for Dance Majors	3
DNCE 204A	Dance Production	2
DNCE 204B	Dance Production	2
DNCE 204C	Dance Production III	2
DNCE 204D	Dance Production IV	2
DNCE 205A	Dance Touring Ensemble I	2
DNCE 205B	Dance Touring Ensemble II	2
DNCE 205C	Dance Touring Ensemble III	2
DNCE 205D	Dance Touring Ensemble IV	2
DNCE 206A	Modern Dance I	2
DNCE 206B	Modern Dance II	2
DNCE 209	Modern Dance III	2
DNCE 210	Modern Dance IV	2
DNCE 213	Ballet III	2
DNCE 214	Ballet IV	2
DNCE 219A	Jazz Dance I	2
DNCE 219B	Jazz Dance II	2
DNCE 220	Jazz Dance III	2
DNCE 221	Jazz Dance IV	2
DNCE 232	Partnering	1
DNCE 240A	Repertory I	2
DNCE 240B	Repertory II	2
DNCE 240C	Repertory III	2
DNCE 240D	Repertory IV	2
DNCE 250A	Hip-Hop Dance I	2
DNCE 250B	Hip-Hop Dance II	2
DNCE 251	Hip-Hop Dance III	2
DNCE 260	Somatic Practices in Dance	3
DNCE 261	Somatic Practices in Modern Dance	1
DNCE 262	Somatic Practices in Ballet	1
DNCE 263	Somatic Practices in Jazz Dance	1
DNCE 270	Dance Practicum	1
DNCE 296	Special Studies in Modern Dance	1
DNCE 297	Special Studies in Jazz Dance	1
DNCE 298	Special Studies in Ballet Dance	1
KNAC 107A	Beginning Badminton	0.5-1
KNAC 107B	Intermediate Badminton	0.5-1
KNAC 107C	Advanced Badminton	0.5-1
KNAC 123	Personal Fitness Training	1
KNAC 140A	Beginning Karate	0.5-1
KNAC 150A	Beginning Hatha Yoga	0.5-1
KNAC 155A	Beginning Self-Defense	0.5-1
KNAC 160A	Beginning Tennis	0.5-1
KNAC 169A	Beginning Wrestling	0.5-1
KNAC 169B	Intermediate Wrestling	1
KNAC 170A	Beginning Yoga	0.5-1
KNAC 200A	Beginning Intramural-Basketball	0.5-1
KNAC 200B	Intermediate Intramural Sports- Basketball	0.5-1
KNAC 200C	Advanced Intramural Basketball	0.5-1
KNAC 211A	Beginning Baseball	1
KNAC 211B	Intermediate Baseball	1
KNAC 220A	Beginning Basketball	1
KNAC 220B	Intermediate Basketball	1
KNAC 220C	Advanced Basketball	1
KNAC 226A	Beginning Water Polo	0.5-1
KNAC 230A	Beginning Flag Football	0.5-1

KNAC 260A	Beginning Soccer	0.5-1
KNAC 260B	Intermediate Soccer	0.5-1
KNAC 260C	Advanced Soccer	0.5-1
KNAC 265A	Beginning Indoor Soccer	0.5-1
KNAC 265B	Intermediate Indoor Soccer	0.5-1
KNAC 265C	Advanced Indoor Soccer	0.5-1
KNAC 270A	Beginning Softball	1
KNAC 290A	Beginning Volleyball	1
KNAC 290B	Intermediate Volleyball	1
KNAD 201A	Beginning Adapted Swimming	0.5-1
KNAD 202A	Beginning Adapted Circuit Training	0.5-1
KNAD 202B	Intermediate Adapted Circuit Training	0.5-1
KNAD 205A	Beginning Adapted Badminton	0.5-1
KNAD 208A	Beginning Adapted Aerobic Fitness	0.5-1
KNAD 208B	Intermediate Adapted Aerobic Fitness	0.5-1
KNAD 211A	Beginning Adapted Aquatics	0.5-1
KNAD 211B	Intermediate Adapted Aquatics	0.5-1
KNAF 140A	Beginning Walking/Jogging for Fitness	0.5-1
KNAF 143A	Boot Camp Workout	0.5-1
KNAF 144A	Beginning Cross Training	0.5-1
KNAF 146A	Beginning Stability Ball	1
KNAF 146B	Intermediate Stability Ball Training	1
KNAF 150A	Beginning Stretch, Flex and Tone	0.5-1
KNAF 156A	Beginning Cardio Kickboxing	0.5-1
KNAF 156B	Intermediate Cardio Kickboxing	0.5-1
KNAF 157A	Beginning Cardio Pump	0.5-1
KNAQ 201A	Beginning Swimming	0.5-1
KNAQ 201B	Lap Swimming	0.5-1
KNFI 112A	Beginning Circuit Training	1
KNFI 112B	Intermediate Circuit Training	1
KNFI 112C	Advanced Circuit Training	1
KNFI 114A	Beginning Spinning	0.5-1
KNFI 114B	Intermediate Spinning	0.5-1
KNFI 115A	Beginning Cardiovascular Conditioning	0.5-1
KNFI 115B	Intermediate Cardiovascular Conditioning	0.5-1
KNFI 115C	Advanced Cardiovascular Conditioning	0.5-1
KNFI 147A	Beginning Weight Training	0.5-1
KNFI 147B	Intermediate Weight Training	0.5-1
KNIA 125	Conditioning for Football	1
KNIA 128	Conditioning for Athletes	1
KNIA 133	Off Season Swimming	1
KNIA 171	Wrestling - Off-Season	1
KNIA 201	Baseball Men	3
KNIA 202	Basketball-Men	3
KNIA 204	Football-Men	3
KNIA 206	Swimming-Men	3
KNIA 209	Water Polo-Men	3
KNIA 210	Wrestling-Men	3
KNIA 211	Softball-Women	3
KNIA 212	Basketball--Women	3
KNIA 213	Volleyball-Women	3
KNIA 216	Soccer-Men	3
KNIA 217	Swimming-Women	3
KNIA 218	Track-Women	3
KNIA 219	Cross Country-Women	3
KNIA 220	Soccer-Women	3
KNIA 221	Water Polo-Women	3
KNIA 223	Baseball	1
KNIA 227	Off Season Water-Polo	1
KNIA 230	Preseason Football	0.5
KNIA 231	Football Camp	1
KNIA 232	Football	1
KNIA 235	Speed and Agility	1
KNIA 240	Advanced Basketball Skills-Men	1
KNIA 261	Soccer-Women	1
KNIA 262	Soccer-Men	1
KNIA 270	Softball	0.5
KNIA 271	Softball - Off Season	1
KNIA 281	Track and Field - Off Season	1
KNIA 291	Volleyball - Off Season	1
KNIA 293	Sand Volleyball	3

e. Additional units to be selected from a, b, or c above for a total of 18 units

Total: 18

5. Mathematics and Science

Program code: SAC.LAMS.AA

Program Control Number: 18583

These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations. **Courses from both mathematics and science must be included in the 18 units selected for the emphasis.** This emphasis may of interest to those planning to pursue careers in actuarial science, business, computer science, engineering, forensics, health professions, research, science, teaching and technical writing.

Note: Although a course may be listed in more than one area of emphasis of the Liberal Arts degree, it may only be used to meet a requirement for a single emphasis.

Learning Outcome(s):

1. Students will express and manipulate quantitative information in verbal, numeric, graphic and symbolic form.
2. Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Required Core Courses:		**Units: 18**
ANTH 101	Introduction to Physical Anthropology	3
ANTH 101L	Physical Anthropology Laboratory	1
ASTR 109	Introduction to the Solar System	3
ASTR 110	Introduction to Stars and Galaxies	3
–OR–		
ASTR 110H	Honors Introduction to Stars and Galaxies	3
ASTR 140	Astronomy Laboratory	1
BIOL 109	Fundamentals of Biology	3
–OR–		
BIOL 109H	Honors Fundamentals of Biology	3
BIOL 109L	Fundamentals of Biology Laboratory	1
BIOL 111	Marine Biology	4
BIOL 115	Concepts in Biology for Educators	4
BIOL 139	Health Microbiology	4
BIOL 149	Human Anatomy and Physiology	4

BIOL 177	Human Genetics	3
BIOL 190	Introduction to Biotechnology	3
BIOL 190L	Introductory Biotech Lab	1
BIOL 200	Environment of Man	3
BIOL 211	Cellular and Molecular Biology	5
BIOL 212	Animal Diversity and Ecology	5
BIOL 214	Plant Diversity and Evolution	5
BIOL 229	General Microbiology	5
BIOL 239	General Human Anatomy	4
BIOL 249	Human Physiology	4
BIOL 259	Environmental Biology	4
CHEM 109	Chemistry in the Community	4
CHEM 115	Concepts in Physical Sciences for Educators	4
CHEM 209	Introductory Chemistry	4
CHEM 210	General, Organic and Biochemistry	5
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5
CHEM 229	General Chemistry and Qualitative Analysis	5
CHEM 249	Organic Chemistry I	5
CHEM 259	Organic Chemistry II	5
ERTH 110	Introduction to Earth Science	3
–OR–		
ERTH 110H	Honors Introduction to Earth Science	3
ERTH 115	Earth Science for Educators	4
ERTH 150	Introduction to Oceanography	3
–OR–		
ERTH 150H	Honors Introduction to Oceanography	3
ENVR 140	Environmental Geology	3
ENVR 200	Environment of Man	3
ENVR 259	Environmental Biology	4
GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography Laboratory	1
GEOG 130	Introduction to Weather and Climate	3
GEOL 101	Introduction to Geology	3
GEOL 101L	Introduction to Geology Laboratory	1
GEOL 140	Environmental Geology	3
GEOL 150	Introduction to Oceanography	3
–OR–		
GEOL 150H	Honors Introduction to Oceanography	3
GEOL 201	Introduction to Historical Geology	4
MATH 070	Geometry	3
MATH 083	Beginning and Intermediate Algebra for Liberal Arts and Social Science	6
MATH 084	Beginning and Intermediate Algebra	6
MATH 105	Mathematics for Liberal Arts Students	3
MATH 140	College Algebra	4
MATH 141	College Algebra with Support	4.5
MATH 145	Finite Mathematics	4
MATH 150	Calculus for Biological, Management and Social Sciences	4
MATH 162	Trigonometry	4
MATH 170	Pre-Calculus Mathematics	4
MATH 180	Single Variable Calculus I	4
–OR–		
MATH 180H	Honors Single Variable Calculus I	4
MATH 185	Single Variable Calculus II	4
MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4
MATH 221	Statistics and Probability with Support	4.5
MATH 280	Intermediate Calculus	4
MATH 287	Introduction to Linear Algebra and Differential Equations	5
PSC 115	Concepts in Physical Sciences for Educators	4
PSC 117	Physical Science Survey	3
PSC 118	Physical Science Survey Laboratory	1
PHYS 109	Survey of General Physics	4
PHYS 210	Principles of Physics I	4
PHYS 211	Principles of Physics II	4
PHYS 217	Engineering Physics I	4
PHYS 227	Engineering Physics II	4
PHYS 237	Engineering Physics III	4
PHYS 279	College Physics I	4
PSYC 200	Introduction to Biological Psychology	3
PHYS 289	College Physics II	4
PSYC 210	Statistics for the Behavioral Sciences	4
	Total:	**18**

6. Social and Behavioral Sciences

Program code: SAC.LASBS.AA

Program Control Number: 18584

These courses emphasize the perspective, concepts, theories and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences. Students will study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate. This emphasis may be of interest to those planning to pursue careers in anthropology, child development, criminal justice, ethnic studies, government service, law, history, marriage and family therapy, political science, psychology, social work, sociology, teaching, and urban planning.

Note: Although a course may be listed in more than one area of emphasis of the Liberal Arts degree, it may only be used to meet a requirement for a single emphasis.

Learning Outcome(s):

1. Students will evaluate how individuals, societies, and social subgroups operate.
2. Students will apply the principles, methodologies, value systems, ethics, and thought processes employed by human inquiry.

Required Core Courses:		**Units:**	**18**
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
ANTH 103	Introduction to Archaeology	3	
ANTH 104	Language and Culture	3	
–OR–			
ANTH 104	Language and Culture	3	
ANTH 105	Ancient Mesoamerican Civilization	3	
ANTH 125	Native Americans in the U.S.	3	
ASIA 101	Introduction to Asian American Studies	3	
BLST 101	Introduction to African American Studies	3	
BIOL 200	Environment of Man	3	
CHST 101	Introduction to Chicana/o Studies	3	

CDEV 107	Child Growth and Development (DS1)	3
CDEV 110	Child, Family, and Community (DS2)	3
CMSD 105	Mass Media and Society	3
–OR–		
CMSD 105H	Honors Mass Media and Society	3
CMSD 111	Media, Race and Gender	3
CMST 103	Introduction to Intercultural Communication	3
–OR–		
CMST 103H	Honors Introduction to Intercultural Communication	3
CMST 206	Gender Communication	3
–OR–		
CMST 206H	Honors Gender Communication	3
CMPR 100	The Computer and Society	3
CNSL 150	Introduction to Human Services	3
CJ 101	Introduction to Criminal Justice	3
CJ 101H	Honors Introduction to Criminal Justice	3
ECON 120	Principles/Macro	3
ECON 121	Principles/Micro	3
ENGL 104	Language and Culture	3
–OR–		
ENGL 104H	Honors Language and Culture	3
ENGL 245	The Image of African Americans in Literature and Films	3
ENGL 278	Survey of Literature by Women	3
ENVR 200	Environment of Man	3
ETHN 101	Introduction to Ethnic Studies	3
–OR–		
ETHN 101H	Honors Introduction to Ethnic Studies	3
ETHN 102	The Borderlands: Cultural Context and Intercultural Relations	3
-OR-		
ETHN 102H	Honors the Borderlands: Cultural Context and Intercultural Relations	3
GEOG 100	World Regional Geography	3
–OR–		
GEOG 100H	Honors World Regional Geography	3
GEOG 102	Cultural Geography	3
GEOG 140	California Geography	3
HIST 101	World Civilizations to the 16th Century	3
–OR–		
HIST 101H	Honors World Civilizations to the 16th Century	3
HIST 102	World Civilizations Since the 16th Century	3
–OR–		
HIST 102H	Honors World Civilizations Since the 16th Century	3
HIST 105	Ancient Mesoamerican Civilization	3
HIST 118	Social and Cultural History of the United States	3
HIST 120	The United States to 1865	3
–OR–		
HIST 120H	Honors The United States to 1865	3
HIST 121	The United States since 1865	3
–OR–		
HIST 121H	Honors The United States since 1865	3
HIST 123	African American History to 1865	3
HIST 124	Mexican American History in the United States	3
–OR–		
HIST 124H	Honors Mexican American History in the United States	3
HIST 125	Native Americans in the U.S.	3
HIST 127	Women in U.S. History	3
HIST 146	African American History from 1863 to the Present	3
HIST 150	Latin American Civilization to Independence	3
HIST 151	Modern Latin American Civilization	3
HIST 153	History of Mexico	3
HIST 163	Introduction to Southeast Asian History	3
HIST 181	Survey of Chicana/Latina Women's History	3
IDS 117H	Honors Introduction to Global Studies	3
IDS 155	Human Sexuality	3
KNPR 150	Sport and Society	3
LAW 100	Introduction to Legal Studies	3
POLT 101	Introduction to American Governments	3
–OR–		
POLT 101H	Honors Introduction to American Governments	3
POLT 200	American Political Thought	3
–OR–		
POLT 200H	Honors American Political Thought	3
POLT 201	Introduction to Comparative Politics	3
POLT 220	International Politics	3
POLT 235	Identity Politics	3
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3
PSYC 140	Introduction to Psychology of Adulthood and Aging	3
PSYC 157	Introduction to Child Psychology	3
PSYC 170	Multicultural Psychology	3
PSYC 180	Introduction to Lifespan Psychology	3
PSYC 200	Introduction to Biological Psychology	3
PSYC 219	Introduction to Research Methods in Psychology	3
PSYC 230	Psychology and Effective Behavior	3
PSYC 240	Introduction to Social Psychology	3
PSYC 250	Introduction to Abnormal Psychology	3
SOC 100	Introduction to Sociology	3
–OR–		
SOC 100H	Honors Introduction to Sociology	3
SOC 112	Relationships, Marriages, and Family Dynamics	3
SOC 140	Social Problems	3
–OR–		
SOC 140H	Honors Analysis of Social Trends and Problems	3
SOC 240	Introduction to Social Psychology	3
WMNS 101	Introduction to Women's Studies	3
WMNS 102	Women in America: Work, Family, Self	3
	Total:	**18**

LIBRARY TECHNOLOGY

Library Technology Degree: AA

Program code: SAC.LIBR.AA

Program Control Number: 04241

The associate degree curriculum in library technology is designed to successfully prepare students for employment above the beginning clerk level as paraprofessionals in school, public, special, or academic libraries. Course content covers terminology, organization, procedures, standards, practices, and fieldwork. Entry-level positions are available in this field as library technical assistants, library assistants, library technicians and library media technicians.

To receive a Certificate in Library Technology, a grade of "C," or better is required for each major course. Library Technology 053 is the only Pass/No Pass course of the program. LT 053 requires a "Pass" grade.

Learning Outcome(s):

1. Apply knowledge and skills gained through all required courses to perform library technician level tasks in various types of libraries.
2. Identify and differentiate the roles and be able to perform job duties of technicians in a library organization.
3. Prepare for employment above the beginning clerk level as paraprofessionals in school, public, special, or academic libraries.

Required Core Courses:		**Units:**	**20-21**
LIBR 101	Introduction to Library Technology*	3	
LIBR 110	Technical Services*	3	
LIBR 054	Children's Library Services*	3	
LIBR 122	Public Services*	3	
LIBR 102*	Information Sources for Paraprofessionals: Tools and Techniques	3	
LIBR 053	Library Internship	3	
BA 125	Microsoft Word	2	
–OR–			
BA 179	Introduction to Microsoft Office	3	

*Course not taught every semester

Electives must be selected from the following courses:		**Units: 6**
ACCT 010	Accounting Procedures	3
BA 160	Microsoft Publisher	2
BA 164	Adobe Photoshop	3
BA 166	Adobe Illustrator	3
BA 169	Adobe Dreamweaver	3
CMST 101	Introduction to Interpersonal Communication	3
–OR–		
CMST 101H	Honors Introduction to Interpersonal Communication	3
CMST 103	Introduction to Intercultural Communication	3
–OR–		
CMST 103H	Honors Introduction to Intercultural Communication	3
CMST 104	Listening	1.5
CMPR 173	Introduction to Networking Technology	3
EDUC 100	Introduction to Education	3
ENGL 270	Children's Literature	3
CDEV 107	Child Growth and Development (DS1)	3
CDEV 120A	Development of the School-Age Child (DS5)	3
CDEV 221	Living and Teaching in a Diverse Society	3
CDEV 231	Developing Language and Literacy in Young Children	3
LIBI 100	Library Research Fundamentals	1
MGMT 121	Human Relations and Organizational Behavior	3
MGMT 120	Principles of Management	3
MGMT 122	Business Communications	3
MGMT 125	Organizational Leadership	3
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3
PSYC 140	Introduction to Psychology of Adulthood and Aging	3
PSYC 157	Introduction to Child Psychology	3
PSYC 170	Multicultural Psychology	3

Total: 26-27

Library Technology: Certificate of Achievement *(Transcripted)*

Program code: SAC.LIBR.CA

Program Control Number: 21795

The certificate curriculum in library technology is designed to successfully prepare students for employment above the beginning clerk level as paraprofessionals in school, public, special, or academic libraries. Course content covers terminology, organization, procedures, standards, practices, and fieldwork. Entry-level positions are available in this field as library technical assistants, library assistants, library technicians and library media technicians. To receive a Certificate in Library Technology, a grade of "C," or better is required for each major course. Library Technology 053 is the only Pass/No Pass course of the program. LT 053 requires a "Pass" grade.

Learning Outcome(s):

1. Students will apply knowledge and skills gained through all required courses to perform library technician level tasks in various types of libraries.
2. Students will identify and differentiate the roles and be able to perform job duties of technicians in a library organization.
3. Students will successfully prepare for employment above the beginning clerk level as paraprofessionals in schools, public, special or academic libraries.

Required Core Courses:		**Units: 20-21**
LIBR 101	Introduction to Library Technology*	3
LIBR 110	Technical Services*	3
LIBR 122	Public Services*	3
LIBR 054	Children's Library Services*	3
LIBR 102	Information Sources for Paraprofessionals: Tools and Techniques*	3
LIBR 053	Library Internship	3
BA 125	Microsoft Word	2
–OR–		
BA 179	Introduction to Microsoft Office	3

*Course not offered every semester

Total: 20-21

MANAGEMENT

The associate degree curriculum in management is designed to prepare students for various management positions in business, government, and public organizations; to aid existing managers in upgrading their skills; and to assist employees for promotion to management/supervision positions. The core of the degree program provides the student with managerial skills and theory including communicating, decision-making, organizing, motivating, and human relations.

Management Degree: AS

Program code: SAC.MGT.AS

Program Control Number: 04188

The associate degree curriculum in management is designed to prepare students for various management positions in business, government, and public organizations; to aid existing managers in upgrading their skills; and to assist employees for promotion to management/supervision positions. The core of the degree program provides the student with managerial skills and theory including communicating, decision-making, organizing, motivating, and human relations.

Learning Outcome(s):

1. Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling
2. Demonstrate a thorough understanding of behavioral theories as they apply to organizations and be able to apply that theory to real-world situations
3. Demonstrate an ability to apply planning methods to business and organizational situations.

Required Core Courses:		**Units:**	**15**
BUS 100	Fundamentals of Business	3	
BUS 222	Business Writing	3	
BUS 120	Principles of Management	3	
–OR–			
MGMT 120	Principles of Management	3	
BUS 121	Human Relations and Organizational Behavior	3	
–OR–			
MGMT 121	Human Relations and Organizational Behavior	3	
MGMT 125	Organizational Leadership	3	
Select TWO courses from the following:			
ACCT 101	Financial Accounting	4	
BUS 105	Legal Environment of Business	3	
BUS 106	Culture and International Business - Kiss, Bow or Shake Hands	3	
BUS 125	Introduction to International Business	3	
BUS 150	Introduction to Information Systems and Applications	3	
MGMT 135	Human Resource Management	3	
MKTG 113	Principles of Marketing	3	
		Total:	**18-19**

Retail Management Degree: AS

Program code: SAC.MGTRE.AS

Program Control Number: 16525

The Associate Degree program is approved by the Western Association of Food Chains and persons completing the prescribed courses are eligible to receive both the ECC Certificate of Competence and the WAFC Retail Management Certificate.

The WAFC Retail Management Degree is a specially recognized program designed to prepare individuals for the fast-paced retail industry. This program is also intended to help students develop an understanding of the retail manager's job and the requirements for success in the retail environment.

Learning Outcome(s):

1. Students will have a working knowledge of Management, Human Relations, Computer Technology, Marketing, and Budgeting as it applies to the retail industry.

Required Core Courses:		**Units:**	**25**
ACCT 101	Financial Accounting	4	
BUS 120	Principles of Management	3	
–OR–			
MGMT 120	Principles of Management	3	
BUS 121	Human Relations and Organizational Behavior	3	
–OR–			
MGMT 121	Human Relations and Organizational Behavior	3	
BUS 222	Business Writing	3	
–OR–			
MGMT 122	Business Communications	3	
CMPR 100	The Computer and Society	3	
MGMT 135	Human Resource Management	3	
MKTG 111	Principles of Retailing	3	
MKTG 113	Principles of Marketing	3	
		Total:	**25**

Management: Certificate of Achievement *(Transcripted)*

Program code: SAC.MGT.CA

Program Control Number: 33333

The certificate curriculum in management is designed to prepare students for various management positions in business, government, and public organizations; to aid existing managers in upgrading their skills; and to assist employees for promotion to management/supervision positions. The core courses provide students with managerial skills and theory including communicating, decision-making, organizing, motivating, and human relations. The student can gain practical skills in a specific area by specializing in human resource management, supervision, or small business management.

Learning Outcome(s):

1. Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling
2. Demonstrate a thorough understanding of behavioral theories as they apply to organizations and be able to apply that theory to real-world situations
3. Demonstrate an ability to apply planning methods to business and organizational situations.

Required Core Courses:		**Units:**	**15**
BUS 100	Fundamentals of Business	3	
BUS 120	Principles of Management	3	
–OR–			
MGMT 120	Principles of Management	3	
BUS 121	Human Relations and Organizational Behavior	3	
–OR–			
MGMT 121	Human Relations and Organizational Behavior	3	
MGMT 122	Business Communications	3	
–OR–			
BUS 222	Business Writing	3	
MGMT 125	Organizational Leadership	3	
Select TWO courses from the following:			
ACCT 101	Financial Accounting	4	
BUS 105	Legal Environment of Business	3	
BUS 106	Culture and International Business - Kiss, Bow or Shake Hands	3	
BUS 125	Introduction to International Business		
BUS 150	Introduction to Information Systems and Applications	3	
MGMT 135	Human Resource Management	3	
MKTG 113	Principles of Marketing	3	
		Total:	**21-22**

Retail Management Certificate of Achievement *(Transcripted)*

Program code: SAC.MGTRT.CA

Program Control Number: 15242

The program is approved by the Western Association of Food Chains (WAFC), and persons completing the prescribed courses are eligible to receive both the ECC Certificate of Competence and the WAFC Retail Management Certificate.

The WAFC Retail Management Certificate is a specially recognized program designed to prepare individuals for the fast-paced retail industry. This program is also intended to help students develop an understanding of the retail manager's job and the requirements for success in the retail environment.

Learning Outcome(s):

1. Students will have a working knowledge of Management, Human Relations, Computer Technology, Marketing, and Budgeting as it applies to the retail industry.

Required Core Courses:		**Units:**	**25**
ACCT 101			
BUS 120	Financial Accounting Principles of Management	4	
–OR–			
MGMT 120	Principles of Management	3	
BUS 121	Human Relations and Organizational Behavior	3	
–OR–			
MGMT 121	Human Relations and Organizational Behavior	3	
BUS 222	Business Writing	3	
–OR–			
MGMT 122	Business Communications	3	
CMPR 100	The Computer and Society	3	
MGMT 135	Human Resource Management	3	
MKTG 111	Principles of Retailing	3	
MKTG 113	Principles of Marketing	3	
		Total:	**25**

Human Resource Management: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.MGTHR.CERT

The Human Resources Management Certificate is designed to prepare students for human resources management positions in business, government, and other organizations; to aid existing managers in upgrading human resource management skills; and to assist employees for promotion to management/supervision positions. The certificate program provides the student with practical managerial skills and theory.

Learning Outcome(s):

1. The student will gain the practical and theoretical skills for a successful career in the area of human resources management.

Required Core Courses:		**Units:**	
BUS 105	Legal Environment of Business	3	
BUS 120	Principles of Management	3	
–OR–			
MGMT 120	Principles of Management	3	
BUS 121	Human Relations and Organizational Behavior	3	
–OR–			
MGMT 121	Human Relations and Organizational Behavior	3	
MGMT 135	Human Resource Management	3	
		Total:	**12**

Small Business Certificate of Proficiency *(Untranscripted)*

Program code: SAC.MGTSB.CERT

The certificate in small business management is designed to prepare students for owning or operating a small business or organization. The core of the certificate provides the student with planning, organizing, leading and controlling skills, and theory including communicating, decision-making, organizing, motivating, and human relations. The certificate program provides practical business management skills for the student.

Learning Outcome(s):

1. The student will gain knowledge and skills needed to have a successful career as a small business owner.

Required Core Courses:		**Units:**	**11**
ACCT 035	QuickBooks I	2	
BUS 120	Principles of Management	3	
–OR–			
MGMT 120	Principles of Management	3	
BUS 170	Principles of Small Business Management	3	
MKTG 113	Principles of Marketing	3	
Select ONE of the following courses:		**Units:**	**7**
BUS 100	Fundamentals of Business	3	
ENTR 105	Social Media, Bootstrapping, and Market Validation	2	
ENTR 109	Powerful Presentations	2	
		Total:	**18**

Supervision: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.MGTSV.CERT

The Supervison Certificate is designed to prepare students for various supervisory positions in business, government, and public organizations; to aid existing managers in upgrading their skills; and to assist employees for promotion to management/supervision positions. The certificate program provides practical skills for the student to use on the job.

Learning Outcome(s):

1. Students will demonstrate an understanding of the core management functions of planning, organizing, leading, and controlling as well as demonstrate a thorough understanding of behavioral theories as they apply to organizations and be able to apply that theory to real-world situations.

Required Core Courses:		**Units:**	**12**
MGMT 120	Principles of Management	3	
–OR–			
BUS 120	Principles of Management	3	
MGMT 121	Human Relations and Organizational Behavior	3	
–OR–			
BUS 121	Human Relations and Organizational Behavior	3	
MGMT 122	Business Communications	3	
–OR–			
BUS 222	Business Writing	3	
MGMT 125	Organizational Leadership	3	
		Total:	**12**

MANUFACTURING TECHNOLOGY

CNC Lathe Set Up and Operation Option Degree: AS

Program code: SAC.MNGLA.AS

Program Control Number: 16619

In addition to the general education requirements, the associate degree curriculum in manufacturing technology computer numerical control machine set up and operation is designed to prepare the student for entry or advancement in the CNC Machine Operator Specialty of manufacturing technology.

Learning Outcome(s):

1. Setup and operate CNC lathe to industrial standards.

Required Courses Manufacturing Technology Core Courses		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**13**
MNFG 096	Manufacturing Technology Lab	0.5-4	
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 178	Mastercam Lathe	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
Select nine units from the following electives:		**Units:**	**9**
MNFG 103	Beginning Solid Modeling	3	
MNFG 104	Solidworks Intermediate Solid Modeling	3	
MNFG 105	Solidworks Advanced Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
WELD 108	Oxyacetylene-Arc Welding	3	
		Total:	**37**

CNC Machine Set Up and Operation Option Degree: AS

Program code: SAC.MNGMA.AS

Program Control Number: 04213

In addition to the general education requirements, the associate degree curriculum in manufacturing technology computer numerical control machine set up and operation is designed to prepare the student for entry or advancement in the CNC Machine Operator Specialty of manufacturing technology.

Learning Outcome(s):

1. Set up and operate a CNC Mill to industrial standards.

Required Courses Manufacturing Technology Core Courses		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**15**
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
Select six units from the following electives:		**Units:**	**6**
MNFG 103	Beginning Solid Modeling	3	
MNFG 104	Solidworks Intermediate Solid Modeling	3	
MNFG 105	Solidworks Advanced Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 178	Mastercam Lathe	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
WELD 108	Oxyacetylene-Arc Welding	3	
		Total:	**36**

CNC Milling Machine Set Up and Operation Option Degree: AS

Program code: SAC.MNGMI.AS

Program Control Number: 16621

In addition to the general education requirements, the Associate Degree curriculum in manufacturing technology computer numerical control milling machine set up and operation is designed to prepare the student for entry or advancement in the CNC Milling Machine Operator Specialty of manufacturing technology.

Learning Outcome(s):

1. Prepare CNC Programming for the production of manufacturing parts
2. Operate CNC Milling Machine
3. Set up and run CNC Milling Machine

Manufacturing Technology Core Requirements:		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
Specific Major Requirements:		**Units:**	**18.5-22**
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
MNFG 195	Mastercam 5 Axis Mill Toolpath and Application	3	
MNFG 096	Manufacturing Technology Lab	0.5-4	
Select three units from the following electives		**Units:**	**3**
MNFG 128	Basic Metals Technology	3	
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 178	Mastercam Lathe	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
MNFG 103	Beginning Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
WELD 108	Oxyacetylene-Arc Welding	3	
		Total:	**36.5-40**

CNC Programmer A- Mastercam Option Degree: AS

Program code: SAC.MNGPA.AS

Program Control Number: 10664

In addition to the general education requirements, the associate degree curriculum in manufacturing technology-computer numerical control programmer A (Mastercam) is designed to prepare the student for entry or advancement in the CNC programming specialty of the machine tool field.

Learning Outcome(s):

1. Prepare CNC Programs to industrial standards

Required Courses Manufacturing Technology Core Courses		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**21**
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 178	Mastercam Lathe	3	
MNFG 195	Mastercam 5 Axis Mill Toolpath and Application	3	
Select three units from the following electives:		**Units:**	**3**
MNFG 103	Beginning Solid Modeling	3	
MNFG 104	Solidworks Intermediate Solid Modeling	3	
MNFG 105	Solidworks Advanced Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
MNFG 130A	CATIA Beginning Solid Modeling	3	
MNFG 130B	CATIA Intermediate Solid Modeling	3	
		Total:	**39**

Conventional Machining Option Degree: AS

Program code: SAC.MNGCM.AS

Program Control Number: 08722

In addition to the general education requirements, the associate degree in manufacturing technology, conventional machining, is designed to prepare the student for entry or advancement in the conventional machine tool operation specialty.

Learning Outcome(s):

1. Set up and operate conventional machines to industrial standards.

Required Courses Manufacturing Technology Core Courses		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**12**
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 169	Job Shop Skills	0.5-3	
WELD 108	Oxyacetylene-Arc Welding	3	
Select six units from the following electives:		**Units:**	**6**
MNFG 103	Beginning Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 178	Mastercam Lathe	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
		Total:	**33**

CNC Lathe Set Up and Operation Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.MNGLA.CA

Program Control Number: 21778

The certificate of achievement curriculum in manufacturing technology, computer numerical control machine set up and operation is designed to prepare the student for entry or advancement in the CNC Machining Industry.

Learning Outcome(s):

1. Setup and operate CNC lathe to industrial standards.

Manufacturing Technology Core Requirements:		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**13**
MNFG 096	Manufacturing Technology Lab	0.5-4	
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 178	Mastercam Lathe	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
Select nine units from the following electives:		**Units:**	**9**
MNFG 103	Beginning Solid Modeling	3	
MNFG 104	Solidworks Intermediate Solid Modeling	3	
MNFG 105	Solidworks Advanced Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
WELD 108	Oxyacetylene-Arc Welding	3	
		Total:	**37**

CNC Machine Set Up and Operation Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.MNGMA.CA

Program Control Number: 21779

The certificate of achievement curriculum in manufacturing technology computer numerical control machine set up and operation is designed to prepare the student for entry or advancement in the CNC Machine Operator Specialty of manufacturing technology.

Learning Outcome(s):

1. Set up and operate CNC machines to the industrial standards.

Manufacturing Technology Core Requirements:		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements		**Units:**	**16.5**
MNFG 096	Manufacturing Technology Lab	0.5-4	
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
Select six units from the following electives:		**Units:**	**6**
MNFG 103	Beginning Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 178	Mastercam Lathe	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
WELD 108	Oxyacetylene-Arc Welding	3	
		Total:	**37.5**

CNC Milling Machine Set Up and Operation Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.MNGMI.CA

Program Control Number: 21782

The certificate of achievement curriculum in manufacturing technology computer numerical control machine set up and operation is designed to prepare the student for entry or advancement in the CNC Milling Machine Operator Specialty of manufacturing technology.

Learning Outcome(s):

1. Set up and operate a CNC Mill to industrial standards.

Required courses Manufacturing Technology Core Courses

		Units:	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**18.5-22**
MNFG 096	Manufacturing Technology Lab	0.5-4	
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
MNFG 195	Mastercam 5 Axis Mill Toolpath and Application	3	
Select three units from the following electives:		**Units:**	**3**
MNFG 103	Beginning Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 178	Mastercam Lathe	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
WELD 108	Oxyacetylene-Arc Welding	3	
		Total:	**36.5-40**

CNC Programmer A- Mastercam Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.MNGPA.CA

Program Control Number: 21783

The certificate of achievement curriculum in manufacturing technology computer numerical control programmer A (Mastercam) is designed to prepare the student for entry or advancement in the CNC programming specialty of Manufacturing Technology.

Learning Outcome(s):

1. Create CNC program using Mastercam software

Required courses Manufacturing Technology Core Courses		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**22**
MNFG 096	Manufacturing Technology Lab	0.5-4	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 175	Mastercam - 3D Geometry, 3D Surfaces	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 178	Mastercam Lathe	3	
MNFG 195	Mastercam 5 Axis Mill Toolpath and Application	3	
Select three units from the following electives:		**Units:**	**3**
MNFG 103	Beginning Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
MNFG 130A	CATIA Beginning Solid Modeling	3	
MNFG 130B	CATIA Intermediate Solid Modeling	3	
		Total:	**40**

Conventional Machining Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.MNGCM.CA

Program Control Number: 21784

The certificate of achievement curriculum in manufacturing technology, conventional machining, is designed to prepare the student for entry or advancement in the conventional machine tool operation field.

Learning Outcome(s):

1. Set up and operate conventional machines to industrial standards

Manufacturing Technology Core Requirements:		**Units:**	**15**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 158	Basic Machining Concepts and Operations	3	
MNFG 171	CNC Program Writing	4	
Specific Major Course Requirements:		**Units:**	**12**
MNFG 159	Advanced Turning Concepts and Operations	3	
MNFG 168	Advanced Milling Concepts and Operations	3	
MNFG 169	Job Shop Skills	0.5-3	
WELD 108	Oxyacetylene-Arc Welding	3	
Select six units from the following electives:		**Units:**	**6**
MNFG 103	Beginning Solid Modeling	3	
MNFG 106	Solidworks Drawings	3	
MNFG 128	Basic Metals Technology	3	
MNFG 173	Mastercam - 2D Geometry, 2D Toolpaths	3	
MNFG 174	CNC Milling Center Set Up and Operation	3	
MNFG 176	CNC Turning Center Set Up and Operation	3	
MNFG 177	Mastercam - 3D Toolpath and CAM Applications	3	
MNFG 178	Mastercam Lathe	3	
MNFG 184	Advanced CNC Mill Set Up and Operation	3	
MNFG 186	Advanced CNC Lathe Programming, Setup and Operation	3	
MNFG 194	CNC Horizontal Mill Setup and Operation	3	
		Total:	**33**

Medical Device Quality Assurance: Certificate of Achievement *(Transcripted)*

Program code: SAC.MNGMD.CA

Program Control Number: 36454

A certificate in the Medical Device Quality Assurance program prepares students for prospective careers in the manufacturing, development, and/or design of medical devices, depending on work experiences and academic skill sets. Students will gain knowledge of FDA requirements for Good Manufacturing Practice (GMP) and Good Laboratory Practice (GLP) enhanced by experienced lecture materials, in-class workshops, presentation exercises, laboratory demonstrations, and exposure to other manufacturing technology disciplines. Students will have hands-on lessons to develop skills needed in the production or laboratory setting. Students will be prepared for entry level positions in medical device repairs, and medical device preparations, such as Medical Device Assembler, Medical Device Inspector, and Medical Equipment Repairer.

Learning Outcome(s):

1. Work in the field of medical device industry as a medical device assembler and a medical device inspector.

Required Core Courses:		**Units:**	**18**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 153	Technical Mathematics	3	
MNFG 116	QC Operations with Verisurf Software	3	
MNFG 117	QC Operations with PC-DMIS CMM-1	3	
MNFG 120	Introduction to Medical Device Quality	2	
MNFG 121	Quality Control for Medical Devices	2	
		Total:	**18**

Quality Control and Inspection Certificate of Achievement *(Transcripted)*

Program code: SAC.MNGQC.CA

Program Control Number: 36411

A certificate in Quality Control and Inspection prepares students for various quality inspector positions, as well as an introduction to various quality concepts that support inspection positions, such as inspection planning, calibration systems, sampling, quality tools including SPC, and their implementation, auditing, corrective, and preventive action, and customer, and supplier relationships.

Program includes the operation of PC-DMIS CMM software.

Learning Outcome(s):

1. Work in the area of inspection planning, calibration systems, and sampling.

Required Core Courses:		**Units:**	**26**
MNFG 111	Basic Mechanical Blueprint Reading	2	
MNFG 114	Geometric Dimensioning and Tolerancing	3	
MNFG 128	Basic Metals Technology	3	
MNFG 153	Technical Mathematics	3	
MNFG 115	QC1 Quality Inspection	3	
MNFG 116	QC Operations with Verisurf Software	3	
MNFG 117	QC Operations with PC-DMIS CMM-1	3	
MNFG 118	QC Operations with PC-DMIS CMM-2	3	
MNFG 119	QC2: Quality Theory	3	
		Total:	**26**

3D Solid Modeling for Manufacturing: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.MNG3D.CERT

The certificate curriculum is designed for students who would like to earn certification of achievement in the use of the Solidworks 3D Solid Modeling software.

Learning Outcome(s):

1. Create computer 3D solid models using the Solidworks software.

Required Core Courses:		**Units:**	**12**
MNFG 103	Beginning Solid Modeling	3	
–OR–			
ENGR 103	Solidworks Basic Solid Modeling	3	
–AND–			
MNFG 104	Solidworks Intermediate Solid Modeling	3	
–OR–			
ENGR 104	Solidworks Intermediate Solid Modeling	3	
–AND–			
MNFG 105	Solidworks Advanced Solid Modeling	3	
–OR–			
ENGR 105	Solidworks Advanced Solid Modeling	3	
–AND–			
MNFG 106	Solidworks Drawings	3	
		Total:	12

MARKETING

The Contemporary Marketing Degree and Certificate programs are designed to prepare students for careers in marketing and to assist existing marketing managers and professionals in upgrading their skills. New career opportunities in marketing will be highlighted. The courses include the latest concepts, techniques and technology used to successfully develop, price, promote, and distribute products and services in a global economy. The program provides students with cutting-edge practical and applicable marketing skills for New Media Marketing.

Contemporary Marketing Degree: AA

Program code: SAC.MKTG.AA

Program Control Number: 04190

The Contemporary Marketing Degree program is designed to prepare students for careers in today's marketing field. New career opportunities in marketing will be highlighted throughout the program. The courses include the latest concepts, techniques and technology used to successfully develop, price, promote and distribute products and services in a global economy. The program provides students with cutting-edge practical and applicable marketing skills for New Media Marketing opportunities.

Learning Outcome(s):

1. To prepare students to successfully obtain a position in a field of marketing.
2. To prepare students with the skills needed to the fields associated with Contemporary Marketing.

Required Core Courses:		**Units**	**9**
MKTG 113	Principles of Marketing	3	
BUS 222	Business Writing	3	
BUS 100	Fundamentals of Business	3	
–OR–			
ENTR 100	Introduction to Innovation and Entrepreneurship	3	
Sales Sequence:		**Units:**	**4**
MKTG 120	Understanding Consumer Behavior – Getting them to Buy, Buy, Buy	1	
MKTG 121	Negotiating - Getting to a Win-Win	1	
MKTG 122	Sales Strategies that Build Business Relationships & Increase Sales	2	
21st Century Marketing Sequence:		**Units:**	**4**
MKTG 123	Marketing and Technology - Trends and Cutting Edges	1	
MKTG 124	Cause Marketing and Public Relations - Doing Well by Doing Good	1	
ENTR 105	Social Media, Bootstrapping, and Market Validation	2	
International Marketing Sequence:		**Units:**	**4**
BUS 141	The Globalization of Marketing	1	
BUS 142	International Market Research and Planning	1	
BUS 143	Packaging, Pricing and Promoting Products/ Services for Export	1	
BUS 145	Channels of Distribution in International Markets	1	
Advertising & Distribution Sequence:		**Units:**	**4**
MKTG 125	Advertising & Promotion – Get the Word Out & Keep Your Customers Buying	2	
MKTG 126	Distributing Products & Services – Reaching Customers Where They Shop	2	
Capstone Course:		**Units:**	**3**
ENTR 110	Capstone Business Simulations	3	
Select ONE course from the following:		**Units:**	**2-3**
BUS 125	Introduction to International Business	3	
BUS 127	Introduction to E-Commerce	3	
–OR–			
MKTG 127	Introduction to E-Commerce	3	
ENTR 107	Money, Finance and Accounting for Entrepreneurs	2	
ENTR 109	Powerful Presentations	2	
		Total:	**30-31**

Contemporary Marketing: Certificate of Proficiency

(Untranscripted)

Program code: SAC.MKTG.CERT

The Contemporary Marketing Certificate program is designed to prepare students for careers in today's marketing field. New career opportunities in marketing will be highlighted throughout the program. The courses include the latest concepts, techniques and technology used to successfully develop, price, promote and distribute products and services in a global economy. The program provides students with cutting-edge practical and applicable marketing skills for New Media Marketing opportunities.

Learning Outcome(s):

1. To prepare students with the skills needed to the fields associated with Contemporary Marketing.

Required Core Courses:		**Units:**	**3**
MKTG 113	Principles of Marketing	3	
BUS 222	Business Writing	3	
BUS 100	Fundamentals of Business	3	
–OR–			
ENTR 100	Introduction to Innovation and Entrepreneurship	3	
Sales Sequence:		**Units**	**4**
MKTG 120	Understanding Consumer Behavior – Getting them to Buy, Buy, Buy	1	
MKTG 121	Negotiating - Getting to a Win-Win	1	
MKTG 122	Sales Strategies that Build Business Relationships & Increase Sales	2	
21st Century Marketing Sequence:		**Units:**	**4**
MKTG 123	Marketing and Technology - Trends and Cutting Edges	1	
MKTG 124	Cause Marketing and Public Relations - Doing Well by Doing Good	1	
ENTR 105	Social Media, Bootstrapping, and Market Validation	2	
International Marketing Sequence:		**Units:**	**4**
BUS 141	The Globalization of Marketing	1	
BUS 142	International Market Research and Planning	1	
BUS 143	Packaging, Pricing and Promoting Products/ Services for Export	1	
BUS 145	Channels of Distribution in International Markets	1	
Advertising & Distribution Sequence:		**Units:**	**4**
MKTG 125	Advertising & Promotion – Get the Word Out & Keep Your Customers Buying	2	
MKTG 126	Distributing Products & Services – Reaching Customers Where They Shop	2	
		Total:	**19**

MATHEMATICS

Mathematics Degree: AS

Program code: SAC.MATH.AS

Program Control Number: 04242

The associate degree curriculum in mathematics prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree. Employment opportunities are available as mathematicians in government, industry, and education. Please see a counselor for specific course requirements for your transfer university.

Learning Outcome(s):

1. Students will apply concepts and principles of Calculus to perform computations and solve problems.
2. Students will create, use and analyze graphical representations of mathematical relationships.
3. Students will communicate their mathematical knowledge and understanding of mathematical concepts.

Required Core Courses:		**Units:**	**20**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
MATH 280	Intermediate Calculus	4	
MATH 287	Introduction to Linear Algebra and Differential Equations	5	
CMPR 120	Introduction to Programming	3	
–OR–			
CMPR 112	Java Programming	3	
		Total:	**20**

Mathematics Degree for Transfer: AS-T

Program code: SAC.MATH.AST

Program Control Number: 32062

Option 2 Associate in Science in Mathematics for Transfer the Associate in Science in Mathematics for Transfer (AS-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Mathematics. Employment opportunities are available as mathematicians in government, industry, education, technology, gaming, and healthcare. Please consult a counselor regarding specific course requirements for your transfer institution. Successful completion of the AS-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Mathematics major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Mathematics students will gain a strong foundation in the mathematical field. This knowledge base will be grounded in quantitative and analytical reasoning. Additionally, students will have the capacity to write, and communicate with mathematical models and apply appropriate problem solving techniques to real world phenomena.

Learning Outcome(s):

1. Students will apply concepts and principles of Calculus to perform computations and solve problems.
2. Students will create, use and analyze graphical representations of mathematical relationships.
3. Students will communicate their mathematical knowledge and understanding of mathematical concepts.

Required Core Courses:		**Units:**	**17**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
MATH 280	Intermediate Calculus	4	
MATH 287	Introduction to Linear Algebra and Differential Equations	5	

Select one course from the following:		Units:	3-4
CMPR 129	Introduction to Computer Organization	4	
CMPR 112	Java Programming	3	
CMPR 120	Introduction to Programming	3	
CMPR 121	Programming Concepts	3	
CMPR 131	Data Structures Concepts	3	
CMPR 141	UNIX Operating System	3	
CMPR 213	C# Programming	3	
PHYS 217	Engineering Physics I	4	
		Total:	**20-21**

MEDICAL ASSISTANT

Administrative / Clinical Degree: AS

Program code: SAC.MA.AS

Program Control Number: 04227

In addition to the general education requirements, the associate degree of science curriculum for medical assistant administrative/ clinical is designed to prepare a student for employment in a medical office, a hospital business office, a clinic, or allied health facility. Careers are available as medical assistants, front and back office; insurance secretaries, admitting clerks, medical records clerks and receptionists in all medical facilities.

Course content includes medical terminology; medical typing, computer techniques and skills; medical forms, reports, and charts; medical insurance, billing and collections, bookkeeping; effective human relations as related to a medical office; clinical procedures such as giving injections, sterilizing instruments, monitoring vital signs, assisting with minor surgery, instrument identification; and professional ethics and legal aspects.

Graduates will be qualified to assist doctors in clinical situations or function under the direct supervision of a medical doctor. Graduates will also be qualified to perform all clerical duties normally required in the medical office, hospital business office, clinics, and allied health facilities.

Learning Outcome(s):

1. Students will demonstrate proficiency in speaking, reading and writing when communicating with patients and healthcare teams; logically problem-solve in the healthcare setting; and become employable in an entry-level healthcare career upon completion of their Medical Assisting degree

Required Core Courses:		Units:	15
MA 051A	Beginning Medical Terminology	3	
MA 051B	Advanced Medical Terminology	3	
MA 053	Medical Assistant - Administrative Front Office	3	
MA 054	Medical Insurance and Billing Forms	3	
MA 055	Medical Assistant - Clinical Back Office	3	
Elective must be 6 units selected from the following courses:			
BA 057	Medical Interpretation and Translation-Spanish/English	3	
BA 179	Introduction to Microsoft Office	3	
BA 180	Advanced Microsoft Office	3	
BA 183	Microsoft Word	3	
BA 184	Advanced Microsoft Word for the Workplace	3	
MA 001	Cooperative Work Experience Education - Occupational	1-4	
MA 020	Bloodborne and Airborne Pathogen Standards	0.5	
MA 030	Phlebotomy	1	
MA 056	Computer Applications for the Medical Office	3	
		Total:	**21-23**

Administrative/Clinical: Certificate of Achievement *(Transcripted)*

Program code: SAC.MA.CA

Program Control Number: 19447

The certificate of achievement curriculum for medical assistant administrative / clinical is designed to prepare a student for employment in a medical office, a hospital business office, a clinic, or allied health facility. Careers are available as medical assistants, front and back office; insurance secretaries, admitting clerks, medical records clerks, and receptionists in all medical facilities.

Course content includes medical terminology; medical typing, computer techniques and skills; medical forms, reports and charts; medical insurance, billing and collections, bookkeeping; effective human relations as related to a medical office; clinical procedures such as giving injections, sterilizing instruments, monitoring vital signs, assisting with minor surgery, instrument identification; and professional ethics and legal aspects.

Recipients of the certificate of achievement will be qualified to assist doctors in clinical situations or function under the direct supervision of a medical doctor. Recipients will also be qualified to perform all clerical duties normally required in the medical office, hospital business office, clinics and allied health facilities.

Learning Outcome(s):

1. Students will demonstrate proficiency in speaking, reading and writing when communicating with patients and healthcare teams; logically problem-solve in the healthcare setting; and become employable in an entry-level healthcare career upon completion of their Medical Assisting degree

Required Core Courses:		Units:	15
MA 051A	Beginning Medical Terminology	3	
MA 051B	Advanced Medical Terminology	3	
MA 053	Medical Assistant - Administrative Front Office	3	
MA 054	Medical Insurance and Billing Forms	3	
MA 055	Medical Assistant - Clinical Back Office	3	
		Total:	**15**

MODERN LANGUAGES

Modern Languages Degree: AA

Program code: sac.ml.aa

Program Control Number: 4225

The associate degree curriculum in modern languages is designed to meet the needs of both the student who wishes to transfer to a four-year institution and the student who wishes to achieve basic conversational ability in the language. Completion of the associate of arts degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree and then to possible careers requiring modern languages proficiency.

Note: Presently, the associate degree is offered in French and Spanish. The degree requires 26 units, which includes a minimum of 13 units in the major language with completion of both courses numbered 201 and 202.

Learning Outcome(s):

1. Develop all levels of proficiency in comprehending, speaking, reading, and writing in the current modern language classes while developing an understanding of the literary and cultural context of each language.

Required courses for the concentration in Spanish: 23 units		**Units:**	**23**
SPAN 101	Elementary Spanish I	5	
–OR–			
SPAN 101H	Honors Elementary Spanish I	5	
–AND–			
SPAN 102	Elementary Spanish II	5	
–OR–			
SPAN 102H	Honors Elementary Spanish II	5	
–AND–			
SPAN 201	Intermediate Spanish I	5	
–OR–			
SPAN 201H	Honors Intermediate Spanish I	5	
–AND–			
SPAN 202	Intermediate Spanish II	5	
–OR–			
SPAN 202H	Honors Intermediate Spanish II	5	
–AND–			
SPAN 212	College Business Spanish	3	
–OR–			
SPAN 213	College Spanish Composition	3	
Required courses for the concentration in French: 24 units		**Units:**	
FREN 101	Elementary French I	5	
–AND–			
FREN 102	Elementary French II	5	
–AND–			
FREN 201	Intermediate French I	5	
–OR–			
FREN 201H	Honors Intermediate French I	5	
–AND–			
FREN 202	Intermediate French II	5	
–OR–			
FREN 202H	Honors Intermediate French II	5	
–AND–			
FREN 211	Intermediate Conversation and Composition I	2	
–AND–			
FREN 214	Intermediate Conversation and Composition II	2	
Students who have received credit for the first two semesters must take ten (10) units in a second language other than the major:			
CHNS 101	Elementary Chinese I	5	
CHNS 102	Elementary Chinese II	5	
–OR–			
FREN 101	Elementary French I	5	
–OR–			
FREN 101H	Honors Elementary French I	5	
-OR-			
FREN 102	Elementary French II	5	
-OR-			
FREN 102H	Honors Elementary French II	5	
–OR–			
JAPN 101	Elementary Japanese I	5	
–OR–			
JAPN 102	Elementary Japanese II	5	
–OR–			
SPAN 101	Elementary Spanish I	5	
–OR–			
SPAN 101H	Honors Elementary Spanish I	5	
–OR–			
SPAN 102	Elementary Spanish II	5	
–OR–			
SPAN 102H	Honors Elementary Spanish II	5	
–OR–			
ITAL 120	Elementary Italian I	5	
–OR–			
ITAL 121	Elementary Italian II	5	
–OR–			
VIET 101	Elementary Vietnamese I	5	
–OR–			
VIET 102	Elementary Vietnamese II	5	
Plus three (3) units of electives from the following:			
SPAN 195A	Advanced Conversational Spanish	3	
–OR–			
SPAN 195B	Advanced Conversational Spanish	3	
–OR–			
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
–OR–			
ANTH 104	Language and Culture	3	
–OR–			
ANTH 104H	Honors Language and Culture	3	
–OR–			
ENGL 104	Language and Culture	3	
–OR–			
ENGL 104H	Honors Language and Culture	3	
–OR–			
ENGL 271	Survey of World Literature I	3	
–OR–			
ENGL 272	Survey of World Literature II	3	
–OR–			
GEOG 100	World Regional Geography	3	
–OR–			
GEOG 100H	Honors World Regional Geography	3	
GEOG 101	Physical Geography	3	
–OR–			
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
–OR–			
HIST 102	World Civilizations Since the 16th Century	3	
–OR–			
HIST 102H	Honors World Civilizations Since the 16th Century	3	
–OR–			
HIST 124	Mexican American History in the United States	3	
–OR–			
HIST 124H	Honors Mexican American History in the United States	3	
–OR–			
HIST 150	Latin American Civilization to Independence	3	
–OR–			
HIST 151	Modern Latin American Civilization	3	
		Total:	**36-37**

Spanish Degree for Transfer: AA-T

Program code: sac.span.aat

Program Control Number: 32533

The Associate in Arts in Spanish for Transfer (AA-T in Spanish) prepares students to transfer into the CSU system. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU. Please consult a counselor regarding specific course requirements for your transfer institution. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Spanish, students will have demonstrated success in introductory courses in Spanish including speaking, listening, writing, and reading. This knowledge will be evidenced by an wider understanding of basic historical and cultural aspects of Spanish speaking countries. In addition, students will have the capacity to write and think in a critically analytical way about issues pertaining to the diverse manifestation of the Spanish language throughout the world.

Learning Outcome(s):

In addition to transfer preparation, upon completion of this major students will be able to:

1. Utilize the language for basic and advanced communication.
2. Integrate grammatical structures in academic Spanish reading and writing.
3. Understand the historical and cultural context of language development.
4. Demonstrate knowledge of general social and economic factors affecting language development.
5. Demonstrate familiarity with major contemporary dialectical diversity.
6. Interpret literary historical periods and develop skills in literary analysis.

Required Core Courses:		**Units:**	**20**
SPAN 101	Elementary Spanish I	5	
–OR–			
SPAN 101H	Honors Elementary Spanish I	5	
–AND–			
SPAN 102	Elementary Spanish II	5	
–OR–			
SPAN 102H	Honors Elementary Spanish II	5	
–AND–			
SPAN 201	Intermediate Spanish I	5	
–OR–			
SPAN 201H	Honors Intermediate Spanish I	5	
–AND–			
SPAN 202	Intermediate Spanish II	5	
–OR–			
SPAN 202H	Honors Intermediate Spanish II	5	

NOTE: Students who come to SAC with credit for Spanish 101 and 102 (or 2 and 3 years of high school Spanish respectively) must take the equivalent of 10 units from the following list of possible substitution courses, including another language at the 101 or 102 level.

Substitution Courses:		**Units:**
ANTH 100	Introduction to Cultural Anthropology	3
–OR–		
ANTH 100H	Honors Introduction to Cultural Anthropology	3
–OR–		
ANTH 104	Language and Culture	3
–OR–		
ANTH 104H	Honors Language and Culture	3
–OR–		
CMST 103	Introduction to Intercultural Communication	3
–OR–		
CMST 103H	Honors Introduction to Intercultural Communication	3
–OR–		
ENGL 104	Language and Culture	3
–OR–		
ENGL 104H	Honors Language and Culture	3
–OR–		
ETHN 101	Introduction to Ethnic Studies	3
–OR–		
ETHN 101H	Honors Introduction to Ethnic Studies	3
–OR–		
GEOG 100	World Regional Geography	3
–OR–		
GEOG 100H	Honors World Regional Geography	3
–OR–		
HIST 150	Latin American Civilization to Independence	3
–OR–		
HIST 151	Modern Latin American Civilization	3
–OR–		
HIST 153	History of Mexico	3
–OR–		
SOC 100	Introduction to Sociology	3
–OR–		
SOC 100H	Honors Introduction to Sociology	3
–OR–		
SOC 140	Social Problems	3
–OR–		
SOC 140H	Honors Analysis of Social Trends and Problems	3
–OR–		
WMNS 101	Introduction to Women’s Studies	3

List A: Select one (3-4 units)		Units:	3-4
ANTH 105	Ancient Mesoamerican Civilization	3	
–OR–			
CMST 101	Introduction to Interpersonal Communication	3	
–OR–			
CMST 101H	Honors Introduction to Interpersonal Communication	3	
–OR–			
ENGL 102	Literature and Composition	4	
–OR–			
ENGL 102H	Honors Literature and Composition	4	
–OR–			
ENGL 103	Critical Thinking and Writing	4	
–OR–			
ENGL 103H	Honors Critical Thinking and Writing	4	
–OR–			
HIST 105	Ancient Mesoamerican Civilization	3	
–OR–			
HIST 124	Mexican American History in the United States	3	
–OR–			
HIST 124H	Honors Mexican American History in the United States	3	
–OR–			
PHIL 110	Critical Thinking	4	
–OR–			
PHIL 110H	Honors Critical Thinking	4	
–OR–			
SPAN 195A	Advanced Conversational Spanish	3	
–OR–			
SPAN 195B	Advanced Conversational Spanish	3	
–OR–			
SPAN 213	College Spanish Composition	3	
		Total:	**26-27**

MUSIC

Music Degree: AA

Program code: SAC.MUS.AA

Program Control Number: 04219

The associate degree curriculum in music is formulated to meet the needs of the student who wishes to make music the major subject of concentration. Completion of the associate of arts degree prepares a student to move into a curriculum at a four-year institution leading to a baccalaureate degree, and then into careers in public and private teaching, professional performance areas, church music, music therapy, recreational music, composition, arranging and orchestration, and music copying. Please consult a SAC counselor for information about course requirements for particular four-year institutions.

Learning Outcome(s):

1. Display competency and artistry, through experience, in the creation and presentation of public performances of music.
2. Perform proficiently (at the sophomore level) on their primary instrument in a 20-minute public recital. They will pass placement tests on their primary instrument, and be accepted at Cal State, UC, or other four-year institutions
3. Demonstrate an understanding of music theory, piano, harmony and musicianship at the final level of a traditional lower division music sequence. They will pass placement tests in the areas of music theory and musicianship and be placed at the junior level upon transfer to the Cal State, UC, or other four-year institutions.
4. Demonstrate, through public performance, a proficiency, at the sophomore level, on their primary instrument that allows them to perform, accurately and musically, within a large ensemble.
5. Demonstrate proficiency performing in a vocal, or instrumental ensemble, to be able to continue their involvement in music, in a performance ensemble, within the greater community.

Required Core Courses:		Units:
Ensemble, 1 unit required for each of 4 semesters* 4		
Applied Music,		
1 course required for each of 4 semesters**		4
MUS 101	Music Appreciation	3
–OR–		
MUS 101H	Honors Music Appreciation	3
MUS 111	Basic Music Theory and Musicianship I	4
MUS 112	Music Theory and Musicianship II	4
MUS 114A	Musicianship	1
MUS 114B	Musicianship	1
MUS 142	Creating Music on the Digital Audio Workstation	1
–OR–		
MUS 152	Beginning Audio Production	3
MUS 213	Theory 3	3
MUS 214	Theory 4	3

*Courses which have an "N" preceding the number may be required for the major, but are not applicable to the 60 units required for the degree.

*The ensemble course units may be chosen from the following list (take one ensemble four times or select different ensembles to meet this requirement):

		Units:	4
MUS 135	Concert Chorale	1	
MUS 136	Collegiate Choir	1	
MUS 137	Chamber Choir	1	
MUS 141	Instrumental Ensembles	1	
MUS 171	Concert Band	1	
MUS 174	Percussion Ensemble	1	
MUS 175	Jazz Ensemble	1	
MUS 176	Jazz Band	1	
MUS 178	Mariachi	1	
MUS 181	Chamber Orchestra	1	
MUS 189	Guitar Ensemble	1	
MUS 241	Chamber Music Ensemble	1	
MUS 271	Symphonic Band	1	

****The applied music courses may be chosen from:**

		Units:	4-6
MUS 115A	Applied Music (Private Instruction)	1.5	
MUS 115B	Applied Music (Private Instruction)	1.5	
MUS 115C	Applied Music (Private Instruction)	1.5	
MUS 115D	Applied Music (Private Instruction)	1.5	
MUS 121	Beginning Voice	1	
MUS 122	Intermediate Voice	1	
MUS 123	Advanced Voice	1	
MUS 124	Advanced Vocal Production and Repertoire	1	
MUS 140	Instrumental Methods for Winds and Percussion	1	
MUS 161	Class Piano I	1	
MUS 162	Class Piano II	1	
MUS 163	Class Piano III	1	
MUS 164A	Intermediate Piano Repertoire I	1	
MUS 164B	Intermediate Piano Repertoire II	1	
MUS 168	Stylistic Interpretation of Piano Repertoire	1	
MUS 169	Harmonization at the Keyboard	1	
MUS 173	Beginning Rhythms in Percussion and Drums	1	
MUS 180A	String Methods	1	
MUS 180B	Intermediate String Methods	1	
MUS 185	Beginning Classical Guitar	1	
MUS 186	Intermediate Classical Guitar	1	
MUS 187	Advanced Classical Guitar	1	
MUS 188	Advanced Classical Guitar Technique and Repertoire	1	
MUS 215A	Applied Music (Advanced Private Instruction)	1.5	
MUS 268	Intermediate Keyboard Repertoire	1	
MUS 269	Intermediate Harmonization at the Keyboard	1	
		Total:	**28-32**

Music Degree for Transfer: AA-T

Program code: SAC.MUS.AAT

Program Control Number: 32050

The Associate in Arts in Music for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in music, and then into careers in public and private teaching, professional performance, church music, music therapy, composition, arranging and orchestration. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, although does not guarantee admission to a specific campus or major.

See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees. Upon completion of the AA-T in Music, students will be able to demonstrate an understanding of music theory, harmony, and musicianship at the final level of a traditional lower division music sequence. Through public performance, students will demonstrate proficiency on their primary instrument (or voice) that will allow them to perform accurately and musically within a large ensemble and in a solo setting. Upon application to music programs at four year institutions, students will need to pass an audition for acceptance as well as pass skills tests for placement into music theory, musicianship and piano classes.

Note: Although this Transfer Curriculum may provide sufficient preparation for some general Bachelor of Arts programs in Music, it is recommended that students supplement these degree requirements with four semesters of piano (MUS 161, 162, 163, 164), one music appreciation class (MUS 101), and one technology class (MUS 142 or MUS 152) if they intend to transfer into Bachelor of Music programs in Performance, History and Literature, Music Education, or Composition. Please consult a SAC counselor for course requirements for particular four-year institutions.

Learning Outcome(s):

1. Display competency and artistry, through experience, in the creation and presentation of public performances of music.
2. Perform proficiently (at the sophomore level) on their primary instrument in a 20-minute public recital. They will pass placement tests on their primary instrument, and be accepted at Cal State, UC, or other four-year institutions.
3. Demonstrate an understanding of music theory, piano, harmony and musicianship at the final level of a traditional lower division music sequence. They will pass placement tests in the areas of music theory and musicianship and be placed at the junior level upon transfer to the Cal State, UC, or other four-year institutions.
4. Demonstrate, through public performance, a proficiency, at the sophomore level, on their primary instrument that allows them to perform, accurately and musically, within a large ensemble.
5. Demonstrate proficiency performing in a vocal, or instrumental ensemble, to be able to continue their involvement in music, in a performance ensemble, within the greater community.

Required Core Courses:		**Units:**	**22**
MUS 111	Basic Music Theory and Musicianship I	4	
MUS 112	Music Theory and Musicianship II	4	
MUS 114A	Musicianship 1	1	
MUS 114B	Musicianship 1	1	
MUS 115A	Applied Music (Private Instruction)	1.5	
MUS 115B	Applied Music (Private Instruction)	1.5	
MUS 115C	Applied Music (Private Instruction)	1.5	
MUS 115D	Applied Music (Private Instruction)	1.5	
MUS 213	Theory 3	3	
MUS 214	Theory 4	3	

*The ensemble course units may be chosen from the following list (take one ensemble four times or select different ensembles to meet this requirement):

		Units:	**4**
MUS 135	Concert Chorale	1	
–OR–			
MUS 137	Chamber Choir	1	
–OR–			
MUS 171	Concert Band	1	
–OR–			
MUS 175	Jazz Ensemble	1	
–OR–			
MUS 181	Chamber Orchestra	1	
–OR–			
MUS 271	Symphonic Band	1	
		Total:	**26**

Digital Music Production: Certificate of Achievement

(Transcripted)

Program code: SAC.MUSDM.CA

Program Control Number: 16536

The Digital Music Production Certificate is intended for students with an interest in creating musical products with the aid of current computer technology. Career opportunities in this area include:

audio technician in a studio

- Audio specialist for web design
- Independent audio technician in a project studio
- Audio technician/music specialist in a video post-production unit or company
- Retail specialist in a music store
- Music producer/composer for film, TV, radio
- Audio specialist for a computer game company

The program provides students with hands on experience and a working knowledge of the creative and technical issue surrounding the production of digital audio and its application and synchronization with other media. Students will study various means of computer assisted digital audio production including sequencing, digital recording, recording studio techniques, mixdown and synchronization to video. The business of music as well as current and emerging technologies for web audio design will also be covered. A variety of music electives are available to help students gain experience in other musical skills including instruction on an instrument, ensemble playing, and music theory.

Learning Outcome(s):

1. Demonstrate a working knowledge of the creative and technical issues necessary for the production of digital audio and its application and synchronization with other media.
2. Demonstrate a working knowledge of computer assisted digital audio production including sequencing, digital recording, recording studio techniques, mixdown and synchronization to video.
3. Demonstrate competency in the skills necessary for an entry level position in careers including audio technician in a studio, audio specialist for web design, independent audio technician in a project studio, audio technician/music specialist in a video post-production unit or company, retail specialist in a music store, music producer/composer for film, TV, radio or audio specialist for computer game company
4. Demonstrate an understanding of the business of music and current and emerging technologies for audio design.

Required Core Courses:		Units:
MUS 110	Music Fundamentals and Culture	3
–OR–		
MUS 111	Basic Music Theory and Musicianship I	4
MUS 142	Creating Music on the Digital Audio Workstation	1
MUS 143	Intermediate Techniques on the Digital Audio Workstation	1
MUS 144	Projects in Electronic Music	1
MUS 147	Digital Recording Studio Sound Design	2
–OR–		
MUS 153	Introduction to Game Audio	2
MUS 148	Music Scoring for Film and Multimedia	2
MUS 149	The Business of Music	2
MUS 152	Beginning Audio Production	3

Electives must be chosen from the following courses

MUS 109	Reading and Making Music	2
MUS 112	Music Theory and Musicianship II	4
MUS 121	Beginning Voice	1
MUS 122	Intermediate Voice	1
MUS 123	Advanced Voice	1
MUS 124	Advanced Vocal Production and Repertoire	1
MUS 140	Instrumental Methods for Winds and Percussion	1
MUS 146	Digital Recording Studio Techniques I	2
MUS 161	Class Piano I	1
MUS 162	Class Piano II	1
MUS 163	Class Piano III	1
MUS 164A	Intermediate Piano Repertoire I	1
MUS 164B	Intermediate Piano Repertoire II	1
MUS 173	Beginning Rhythms in Percussion and Drums	1
MUS 185	Beginning Classical Guitar	1
MUS 186	Intermediate Classical Guitar	1
MUS 187	Advanced Classical Guitar	1
MUS 188	Advanced Classical Guitar Technique and Repertoire	1
MUS 190	Introduction to ProTools	1.5
MUS 218	Music Notation Using Finale Software	1

Total: 17-20

NURSING

Nursing Degree Pre-Nursing for the Bachelor's Degree in Nursing: AS

Program code: SAC.NRSPR.AS

Program Control Number: 8737

Courses recommended for upper division standing (check with the Division Counselor and the transfer school to verify current courses): California State University, Long Beach; California State University, Fullerton; and California State University, Dominguez Hills.

Learning Outcome(s):

1. Students will meet the non-nursing prerequisites for transfer to a baccalaureate program.

Required Core Courses:		Units: 24-25
CHEM 119	Fundamentals - General and Organic	5
–OR–		
CHEM 209	Introductory Chemistry	4
–OR–		
CHEM 210	General, Organic and Biochemistry	5
–OR–		
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5
BIOL 239	General Human Anatomy	4
BIOL 249	Human Physiology	4
BIOL 229	General Microbiology	5
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3
ENGL 101	Freshman Composition	4
–OR–		
ENGL 101H	Honors Freshman Composition	4

Total: 24-25

Nursing-Registered Nursing Degree: AS

Program code: SAC.NRSRG.AS

Program Control Number: 04226

The Associate Degree Nursing (ADN) program is approved by the California Board of Registered Nursing (BRN) and accredited by the Accreditation Commission for Education in Nursing (ACEN). It is designed to qualify the graduate for the licensure examination and entry into practice as a Registered Nurse (RN). Additionally, completion of the Associate in Science Degree in Nursing prepares a graduate to transfer to a four-year institution for completion of a baccalaureate degree (see a counselor for requirements). The curriculum follows the Santa Ana College Conceptual Framework for Nursing.

Completion of a Nursing Orientation (call Santa Ana College Counseling at 714-564-6103 for dates) is strongly advised. Advance placement in the program may be granted to those students with certain prior experience, vocational nursing, registered nursing education or equivalent. Advanced- Placed/Transfer/Challenge applicants require an individual appointment with the Program Director or designee. SAC reserves the right to designate a certain number of spaces for contract agreements and/or meet grant designated requirements.

Program Learning Outcome:

Graduates will function knowledgeably, safely, and effectively in nursing practice within a variety of health care settings and will be qualified for the licensing examination.

Please refer to www.sac.edu/nursing for current and updated information.

Learning Outcome(s):

1. The Program Learning Outcome is that graduates will function knowledgeably, safely, and effectively in nursing practice within a variety of health care settings and will be qualified for the Registered Nursing (RN) licensing examination.

Admission Prerequisites:

The following prerequisites are required for entry into the program and first semester. Nursing students must meet current departmental catalog requirements.

1. Apply to Santa Ana College, obtain a Student Identification Number, and submit all official college transcripts to Santa Ana College, Admissions Office, 1530 W. 17th Street, Santa Ana, CA. 92706-3398. Please alert the college to possible name changes (e.g. maiden name). It is the student's responsibility to follow up and make sure transcripts have been received.
2. Complete high school/equivalency or have a college degree, verified by submitting official transcripts of high school or college graduation, passing the GED, or passing the California High School Proficiency Examination.
3. Complete courses or equivalents (units are semester units):

BIOL 239	General Human Anatomy	4
BIOL 249	Human Physiology	4
BIOL 139	Health Microbiology	4
ENGL 101	Freshman Composition	4
–OR–		
ENGL 101H	Honors Freshman Composition	4
	Total Units:	**16**

BIOL 229 General Microbiology (5 Units) can be substituted for Biology 139 Health Microbiology. The science prerequisites must be completed within seven (7) years of applying to the Nursing Program.

4. Assessment Technology Institute's Test of Essential Academic Skills (TEAS V or ATI TEAS): All students, including Advanced-Placed/Transfer/Challenge applicants, are required to successfully complete the diagnostic assessment of preparation, TEAS V/ ATI TEAS, prior to entry into the Nursing Program. Remediation is required if this test is not passed. Please see www.sac.edu/ nursing for TEAS remediation information.

Admission Procedures:

For Students Entering the First Semester:

A multi-criteria admission selection process is being used to select students to enter the first semester. The multi-criteria admission selection process is based on points given for the science prerequisites' GPA, completion of English and general education courses, previous degrees, recent work in healthcare, life experiences, fluency in specific languages, and results on the Assessment Technology Institute's Test of Essential Academic Skills (TEAS V/ATI TEAS) test. Please refer to www.sac.edu/ nursing for the specific point breakdown of the multi-criteria. The multi-criteria applications for first semester are accepted from February 15th through March 2nd for fall admissions and from September 15th through September 30th for spring admissions. The science prerequisites require a grade of "C" or higher with an overall Grade Point Average (GPA) of 2.5 or higher.

For Advanced-Placed Students:

There is an entry list for second, third, and fourth semesters. Please refer to www.sac.edu/nursing for information. An individual appointment with the Program Director or designee is required to determine placement except for LVNs who enter the third semester. All the prerequisites require a grade of "C" or higher with an overall Grade Point Average (GPA) of 2.5 or higher. After completing the prerequisites for advanced placement, students must submit a Prerequisite Verification Form (obtained in the Health Sciences/ Nursing Office, R-213, 714-564-6825 or at www.sac.edu/ nursing). After prerequisite verification, students are placed on the entry list for the appropriate semester and course. Students are admitted after successfully completing NRN 200 Role Transition, and successfully passing the Assessment Technology Institute's Test of Essential Academic Skills (TEAS V/ATI TEAS) test. Students on the second, third, and fourth semester entry lists are admitted on a space available basis according to "first to complete all of the requirements, first admitted." Advanced- placed and Re-entry students share entry based on space availability. A student who successfully completes all requirements but who is not accepted because of limited class size will be accepted as soon as space becomes available.

Students may turn down entry to the Role Transition course and/or the program once. A second refusal will result in the student's name being placed at the end of the entry list. A third refusal will result in removal from the list.

Upon acceptance to all semesters:

1. Evidence of a physical examination by an M.D., Physician Assistant, or Nurse Practitioner will be required prior to entry in the program and on an annual basis. Evidence of a physical exam and immunizations must be submitted on the Nursing Program's form upon entry into the program verifying the applicant's health and physical ability to perform the academic and clinical requirements of an RN student. Examinations, including immunization status, must have been performed within 4 months prior to beginning the Nursing Program.
2. A cleared background check is required of all Nursing students after acceptance into the Nursing Program.
3. A cleared drug test is required of Nursing students after acceptance into the program.

4. A current (within one year of issue date) American Heart Association Basic Life Support BLS Provider Card is required upon entry to the Nursing Program and renewed every year.
5. Malpractice insurance must be maintained throughout the Nursing Program.

Students with incomplete physical information, CPR, malpractice insurance, background check, and drug testing will not be allowed into the clinical setting because of mandatory hospital and program requirements. If a student re-enters the program after one or more semester(s) absence, a new background check and drug testing must be provided.

Program Information

The program is four semesters (fall and spring). Students are required to have transportation to off-campus clinical sites. There are 1-2 clinical days per week. These clinical days may be day, evening, or night shifts including weekends in eight or twelve-hour configurations. Theory courses meet 1 to 2 days per week. Please refer to the website at www.sac.edu/nursing for further information. Please note that this is considered a full-time program. Students are advised to limit outside employment to 12 hours/week. Excessive work schedules combined with family and school commitments may contribute to being unsuccessful in the program. It is the student's responsibility to contact the Health Sciences/Nursing office at 714-564-6825 when a change of address or phone number has occurred. If mail is returned due to a wrong address or a student does not respond to an acceptance letter, the student's name will be removed from the entry list. Approximate cost for the supplies/fees can be obtained at www.sac.edu/ nursing. Students who are a "NO SHOW" for the first day of class will be dropped and replaced by an alternate.

The BRN requires all licensure applicants to provide a valid Social Security number.

A Concept-Based Curriculum was implemented and has been phased into all four semesters. A Concept-Based Curriculum allows students to learn nursing concepts in depth with greater emphasis on nursing implementations and exemplars to showcase specific diseases.

The RN program has three options:

Option I - Generic RN academic program of two years.

Applicants interested in this option must:

1. Complete the admission prerequisites and
2. Be admitted into the Santa Ana College RN program at the first semester of the program or be advanced-placed.

Option II - LVN to RN, academic program of one year.

Licensed Vocational Nurses (LVNs) are admitted at the beginning of the second year of the program. To apply for licensure as a Registered Nurse, one must be licensed in California as a Vocational Nurse and:

1. Complete the admission prerequisites,
2. Be admitted into the Santa Ana College RN program in the beginning of the second year of the program (third semester) with college credit granted for 19.5 units of LVN courses,
3. Complete the Role Transition course with a grade of "Pass" before entering the program, and
4. Be placed into the third semester which is dependent upon space availability in the program.

Option III - Thirty (30) Unit LVN Option - (BRN regulation 1429), academic program of one year.

Information on the Thirty (30) Unit LVN Option is available in the Health Sciences/Nursing Office. Applicants interested in this option are required to meet with the Program Director or designee regarding this option being a non-degree option and:

1. Must be licensed in California as a Vocational Nurse,
2. Complete the admission prerequisites required for the 30 Unit LVN Option,
3. Be admitted into the Santa Ana College RN program in the beginning of the second year of the program (third semester),
4. Complete the Role Transition course with a grade of "Pass" before entering the program, and
5. Be placed into the third semester which is dependent upon space availability in the program.

All Nursing Program curricula have been approved by the BRN and ACEN. Major nursing requirements for the Associate Degree in Nursing for the Concept-Based Curriculum prior to Fall 2019:

First Year Requirements		**Units:**	**21.5**
NRN 160	Introduction to Pharmacology	1	
NRN 161	Principles of Nursing Practice	2	
NRN 161L	Principles of Nursing Practice Lab	2.5	
NRN 162	Pharmacological Concepts	1.5	
NRN 163	Simple Concepts	3	
NRN 163L	Simple Concepts Lab	2.5	
NRN 164	Family Health Concepts	2	
NRN 164L	Family Health Concepts Lab	2	
NRN 165	Health Illness Concepts	2.5	
NRN 165L	Health Illness Concepts Lab	2.5	
Second Year Requirements		**Units:**	**19.5**
NRN 261	Mental Health Concepts	1.5	
NRN 261L	Mental Health Concepts Lab	1.5	
NRN 262	Acute Concepts	3	
NRN 262L	Acute Concepts Lab	3	
NRN 263	Complex Concepts	3.5	
NRN 263L	Complex Concepts Lab	2.5	
NRN 264L	Preceptorship Lab	2.5	
NRN 200	Role Transition	2	

NOTE: NRN 200 is only required of advance-placed students or if required for remediation. and must be completed prior to entering the nursing program; not required for generic students unless assigned as part of remediation.

Major nursing requirements for the Associate Degree in Nursing starting Fall 2019:

First Year Requirements		**Units:**	**19.5**
NRN 170	Pharmacological Concepts of Nursing	2	
NRN 171	Principles of Nursing Practice and Simple Concepts	4.5	
NRN 171L	Principles of Nursing Practice and Simple Concepts Lab	4.5	
NRN 172	Family Health and Illness Concepts	4	
NRN 172L	Family Health and Illness Concepts Lab	4.5	
Second Year Requirements		**Units:**	**18.5**
NRN 271	Mental Health and Acute Concepts	4	
NRN 271L	Mental Health and Acute Concepts Lab	4.5	
NRN 272	Complex Concepts	3.5	
NRN 272L	Complex Concepts and Preceptorship Lab	4.5	
NRN 200	Role Transition	2	

NOTE: NRN 200 is required for advanced-placed students only and must be completed prior to entering the nursing program; not required for generic students unless assigned as part of remediation.

Graduation requirements for the Associate Degree in Nursing (See Counseling regarding catalog rights for graduation requirements):
Total nursing units required = 36

Units: 12-25

BIOL 239	General Human Anatomy	4
BIOL 249	Human Physiology	4
BIOL 139	Health Microbiology	4
ENGL 101	Freshman Composition	4
–OR–		
ENGL 101H	Honors Freshman Composition	4
CMST 102	Public Speaking	3
–OR–		
CMST 145	Group Dynamics	3
SOC 100	Introduction to Sociology	3
–OR–		
SOC 100H	Honors Introduction to Sociology	3
PSYC 100	Introduction to Psychology	3
–OR–		
PSYCH 100H	Honors Introduction to Psychology	3

Total = 70 units (prior to entering fall 2019)
Total = 67 units (entering fall 2019)

NOTE: Only Biol 249 and Biol 139 are required for Option III - 30 Unit Option LVN students.

Cultural Breadth and Lifelong Understanding/Self-Development graduation requirements are met for nursing students with completion of the Nursing major. Math proficiency for graduation: Successful completion of math proficiency is required for graduation. Reading proficiency for graduation: Successful completion of reading proficiency is required for graduation. The California BRN stipulates that RN students must complete sixteen (16) units of natural, behavioral, and social sciences as well as six units of communications skills, in addition to the approved nursing units, to qualify for examination and licensure. There are no required electives for the degree. If desired, these courses are recommended: Biology 217; Chemistry 119, 209, 210, 219, 219(H); Medical Assisting 051A; Medical Assisting 051B; Math 219; Nursing Registered 098, 106A, 106B, 106C 198, 206A, 206B, 206C.

Challenge Credit

The student with previous nursing education/ experience, or the veteran with previous military healthcare education/experience, may challenge any Nursing course per the BRN. Application for "Credit by Examination" may be obtained in the Admissions Office. The application must be completed by the student, processed by the Admissions Office, and submitted to the Health Sciences/Nursing Office. The application to challenge must be submitted within the first two weeks of the course. Challenge courses require registration fees. The student will be directed to the appropriate faculty and will be given objectives for the course. An appointment will be made to take the examination(s). The student must be currently enrolled in the course. The theory course must be successfully passed before challenging the concurrent clinical course. The student must meet all clinical requirements. Students may attempt "Credit by Examination" only once in a particular course. If a course has been failed, credit by examination will not be allowed. Grading for the "Credit by Examination" is on a pass/no pass basis. Please see www.sac.edu/nursing for the veterans with military healthcare experience process.

Re-Admission to Program After Withdrawal/Failure

A student may re-enter the Nursing Program once after withdrawal or failure. No student shall be re-admitted after two (2) withdrawals or failures of SAC Nursing Program courses. In cases of grave or extenuating circumstances, a consideration for re-admittance after two withdrawals or failures may be made by the Program Director.

Record of Conviction(s)

Please note: The California Board of Registered Nursing (BRN) requires California Department of Justice and Federal Bureau of Investigation review prior to licensure (upon completion of the program). Section 480 (a) (1) of the Business and Professions Code, authorizes the BRN to deny licensure to applicants convicted of crimes substantially related to nursing. Anyone who wishes clarification may contact:

The Board of Registered Nursing P.O. Box 944210 Sacramento, CA. 94244-2100

Website: **rn.ca.gov** Telephone: (916) 322-3350

Educational Concerns:

Students or concerned parties have the right to contact the California Board of Registered Nursing (BRN) and/or the Accreditation Commission for Education in Nursing (ACEN) regarding concerns about the educational program. It is recommended that this is done after all college means for resolving problems/issues have been exhausted.

BRN P.O. Box 944210 Sacramento, CA. 94244-2100 (916) 322-3350 **rn.ca.gov** ACEN 3343 Peachtree Road, NE, Suite 850 Atlanta, GA. 30326 (404) 975-5000 **acenursing.org**

NUTRITION & FOOD

Nutrition and Dietetics Degree: AS

Program code: SAC.NUT.AS

Program Control Number: 04236

The associate degree curriculum in nutrition and dietetics prepares students to transfer into a curriculum at a four-year institution leading to a baccalaureate degree. Opportunities in the field include positions in: management in hospitals, schools, hotels and restaurants; clinical dietetics in acute care hospitals, clinics and convalescent homes; community nutrition at all levels - international, federal, state, and local; research, product development and testing; teaching, and promotion of food in business.

Learning Outcome(s):

1. Identify components of a healthy diet and lifestyle that lead to optimal health and chronic disease prevention.
2. Demonstrate skills in basic food safety and preparation.
3. Determine nutrient needs for individuals and groups across the lifespan, in diverse cultures and religions, and for different income levels.

Required Core Courses:		**Units:**	**16.5-17.5**
NUTR 101	The Food System and Career Opportunities		1.5
NUTR 115	Nutrition		3
–OR–			
NUTR 115H	Honors Nutrition		3
BIOL 139	Health Microbiology		4
–OR–			
BIOL 229	General Microbiology		5
CHEM 219	General Chemistry		5
–OR–			
CHEM 219H	Honors General Chemistry		5
PSYC 100	Introduction to Psychology		3
–OR–			
PSYC 100H	Honors Introduction to Psychology		3

List A - Select two courses

CHEM 229	General Chemistry and Qualitative Analysis	5
–OR–		
CHEM 249	Organic Chemistry I	5
–OR–		
BIOL 239	General Human Anatomy	4
–OR–		
BIOL 249	Human Physiology	4
–OR–		
MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4

List B - Select one course

NUTR 116	Principles of Food Preparation	3
–OR–		
NUTR 120	Food and Culture	3
–OR–		
NUTR 121	Sports Nutrition	3
–OR–		
NUTR 110	Food Safety and Sanitation	2

Total: 26.5-30.5

Nutrition Degree for Transfer Degree: AS-T

Program code: SAC.NUT.AST

Program Control Number: 35983

The Associate in Science in Nutrition and Dietetics (AS-T in Nutrition and Dietetics) prepares students to transfer into the CSU system leading to a baccalaureate degree in Nutrition and Dietetics. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Science in Nutrition and Dietetics (AS-T in Nutrition and Dietetics) degree also provides guaranteed admission to the CSU system, although not to a particular campus or major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the Associate in Science in Nutrition and Dietetics, students will understand scientific concepts of nutrition related to the function of nutrients in basic life processes, explain current health issues with emphasis on individual needs, and apply food science principles related to ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food.

Learning Outcome(s):

1. Identify components of a healthy diet and lifestyle that lead to optimal health and chronic disease prevention.
2. Analyze an individual's nutritional status and make appropriate dietary recommendations.
3. Identify and analyze credible research on nutrition-related topics.

Required Core Courses:		**Units: 15-16**
NUTR 115	Nutrition	3
–OR–		
NUTR 115H	Honors Nutrition	3
BIOL 139	Health Microbiology	4
–OR–		
BIOL 229	General Microbiology	5
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3

List A - Select two courses:

CHEM 229	General Chemistry and Qualitative Analysis	5
–OR–		
CHEM 249	Organic Chemistry I	5
–OR–		
BIOL 239	General Human Anatomy	4
–OR–		
BIOL 249	Human Physiology	4
–OR–		
MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4
–OR–		
PSYC 210	Statistics for the Behavioral Sciences	4

List B - Select one course:

NUTR 116	Principles of Food Preparation	3
–OR–		
NUTR 120	Food and Culture	3

Total: 26-29

Culinary Arts Foundation: Certificate of Achievement

(Transcripted)

Program code: SAC.CULN.CA

Program Control Number: 08745

The Culinary Arts Foundation Certificate is designed to prepare students with the knowledge and skills necessary to begin their own culinary arts business, for professional improvement and retraining, or for a wide variety of employment opportunities in the profession.

Learning Outcome(s):

1. Demonstrate fundamental skills in food handling, dining room, beverage service, baking and food service, and use of kitchen equipment and tools.
2. Evaluate information, solving problems, and making decisions related to food preparation and food service.
3. Describe career opportunities within the food industry and strategize own career pathway.

Required Core Courses:		**Units: 11-14**
CULN 110	Food Safety and Sanitation	2
–OR–		
NUTR 110	Food Safety and Sanitation	2
CULN 120	Restaurant Management and Culinary	2
CULN 130	Advanced Culinary and Restaurant Management	3
CULN 140	Introduction to Baking & Pastry	3
CULN 190	Food & Beverage Production Management	2
–OR–		
CULN 299	Cooperative Work Experience Education	1-4

Total: 11-14

Hospitality Foundation: Certificate of Achievement

(Transcripted)

Program code: SAC.NUTHO.CA

Program Control Number: 10668

The Hospitality Foundation Certificate is designed to prepare students with the knowledge and skills necessary to seek employment in the fields of restaurant management, hotel/resort management, food and beverage service, and special events/meeting planning.

Learning Outcome(s):

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

1. Create favorable guest experiences by using professional service management techniques in a hospitality business environment.
2. Demonstrate clear and logical decisions by organizing, analyzing, and interpreting information and formulating rational solutions in a hospitality business environment.
3. Describe how hotels and restaurants are organized with the roles and responsbilities of the various departments and job positions.

Required Core Courses:		**Units:**	
18 - 21			
CULN100	Introduction to Culinary Arts and Hospitality	2	
CULN110	Food Sanitation and Safety	3	
–OR–			
NUTR110	Food Sanitation and Safety	3	
CULN150	Principles of Pantry	2	
CULN160	Principles of Beverage Service	2	
CULN200	Business Practices for Culinary Arts Professionals	3	
CULN299	Cooperative Work Experience Education	1 - 4	
BUS080	Business Mathematics	3	
KNHE107	Cardiopulmonary Resuscitation	2	
Select (3 units) from the following:		**Units:**	**3**
FDM102	Promotion and Coordination	3	
–OR–			
BUS170	Principles of Small Business Management	3	
–OR–			
BUS120	Principles of Management	3	
–OR–			
BUS121	Human Relations and Organizational Behavior	3	
		Total:	**21 - 24**

OCCUPATIONAL THERAPY ASSISTANT

Occupational Therapy Assistant Degree: AS

Program code: SAC.OTA.AS

Program Control Number: 07485

The Occupational Therapy Assistant Program provides a strong foundation in the skills and knowledge necessary for entry-level occupational therapy assistant competencies. Occupational therapy is a discipline that focuses on function as well as quality of life. Occupational therapy assistants provide service to individuals with physical, mental or developmental disabilities, across life phases that need to remediate skills of everyday tasks of self-care, home management, community skills, work, and leisure. The major requires general education courses including biological, social, and behavioral science, in addition to, occupational therapy courses. The program utilizes classroom instruction, online classes and fieldwork experiences to prepare the student to meet certification and employment standards.

The associate-degree-level occupational therapy assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its web address is **acoteonline.org**. Graduates of the program will be eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT), One Bank Street, Suite 300, Gaithersburg, MD 20877, phone number (301) 990-7979 and its web address is **nbcot.org**. After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, all states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. Students who have completed all requirements will also need to apply for a license to practice in the State of California through the California Board of Occupational Therapy, 2005 Evergreen Street, Suite 2250, Sacramento, CA 95815, phone number (916) 263-2294, and its web address www.bot.ca.gov. Note that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

Finger printing is a requirement to apply for state licensure with the California Board of Occupational Therapy (BOT) and for placement in most level II fieldwork sites. For information about limitations based on felonies, students are advised to contact NBCOT and BOT any time prior to the application process. Students must complete 16 weeks of Level II Fieldwork within 18 months following the completion of the didactic portion of the program.

PREREQUISITES:

Applicant with AP Exam taken in lieu of a prerequisite course must have a score of 3, 4 or 5. Submit a sealed copy of the official AP Score Report with the application. Official score on an official high school transcript will be accepted.

- Biology 149, Human Anatomy & Physiology (may be taken as a part of a combined course or separately) This course has to be taken within the last 10 years. *Courses without a lab component are not equivalent to this prerequisite*
- Communication Studies 101 or 101H, Introduction to Interpersonal Communication or Communication Studies 102, Public Speaking or Communication Studies 103 or 103H, Introduction to Intercultural Communication or Communication Studies 140, Argumentation and Debate or Communication Studies 145, Group Dynamics
- English 101 or 101H, Freshman Composition
- Psychology 100 or 100H , Introduction to Psychology

APPLICATION PROCEDURES:

Each semester has a separate application period. Check the website for the dates as they become available. For questions regarding the application process, please attend an information session. Completed applications will be accepted in the following format: SPRING semester – a randomization selection process (lottery).

FALL semester - an Associate's degree in OTA to a Bachelor's degree in Occupational Studies (OS). Students will earn both degrees. The selection for this program will be criterion base. This program is for applicants without a Bachelor's Degree awarded from another college/ university.

1. Apply to Santa Ana College to obtain a student ID #.
2. Download and complete the OTA application from our website. Incomplete application will not be reviewed and will be returned.
3. Obtain official high school transcripts (for applicants without an AA/AS or BA/BS degree awarded from an accredited United States Institution). Please note an official high school transcript may be necessary for official AP score.
4. Ensure satisfactory completion of all prerequisite courses, or their equivalents, with a grade of "C" or better. A letter grade of "C-" is not acceptable. Applicants musthave completed all prerequisite courses and the grades must be posted to the official transcripts before submitting an application.
   a. Applicant with AP Exam taken in lieu of a prerequisite course must have a score of 3, 4 or 5 on the AP test. Submit a sealed

copy of the official AP Score Report with the application. Official score on an official high school transcript will be accepted

5. Obtain official college transcripts from every college attended and include them in the application packet. DO NOT send the transcripts directly to Admissions & Records and DO NOT submit unofficial transcripts in the packet. Transcripts must be in sealed envelope form the college.
6. Deliver the application materials in one sealed envelope to the OTA program by the deadline.
7. **This is only for students who have been accepted into the program.** Once accepted, about 2 months prior to starting the program, students will be sent information for completion of the following:

- Background check via CastleBranch
- Provide CPR (BLS for Healthcare Providers)
- Certification from American Heart Association
- Obtain professional liability insurance
- Report of Medical Screening
- Provide documentation of various medical immunizations:
  * Measles, Mumps, Rubella (MMR)
  * Varicella (Chicken Pox)
  * Hepatitis B
  * TB Skin Test, OR quantiFERON Gold blood test, OR clear chest X-Ray
  * Completed DTP (Tdap) Series
  * Influenza Shot or Declination

Learning Outcome(s):

1. Students will be prepared for employment as Occupational Therapy Assistants.
2. Students will pass the National Board for Certification in Occupational Therapy (NBCOT) certification examination for occupational therapy assistants within 1 year of graduation.
3. Major requirements for the associate degree in Occupational Therapy Assistant.

First Semester		**Units**
OTA 100	Medical Terminology and Documentation for the O.T.A.	1
OTA 101L	Exploration of Occupation Through Activity	2
OTA 101	Foundations of Occupation and Occupational Therapy	4
OTA 110	Human Occupation Across Lifespan	3
Second Semester		
OTA 102	Psychosocial Function and Dysfunction	4
OTA 102L	Psychosocial Components of Occupation	2.5
OTA 111	Applied Kinesiology	1
OTA 115	Human Disease and Occupation	2
PSYC 250	Introduction to Abnormal Psychology	3
Third Semester		
OTA 103	Physical Function and Dysfunction	4
OTA 103L	Physical Components of Occupation	2.5
OTA 201	Contemporary Models of Occupational Therapy Practice	4
Fourth Semester		
OTA 202	Level II Fieldwork - Part I	6
OTA 203	Level II Fieldwork - Part II	6
Course		
BIOL 149	Human Anatomy and Physiology	4
–AND–		
CMST 101	Introduction to Interpersonal Communication	3
–OR–		
CMST 101H	Honors Introduction to Interpersonal Communication	3
–OR–		
CMST 102	Public Speaking	3
–OR–		
CMST 103	Introduction to Intercultural Communication	3
–OR–		
CMST 103H	Honors Introduction to Intercultural Communication	3
–OR–		
CMST 140	Argumentation and Debate	3
–OR–		
CMST 145	Group Dynamics	3
–AND–		
ENGL 101	Freshman Composition	4
–OR–		
ENGL 101H	Honors Freshman Composition	4
–AND–		
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3

U.S. History or Political Science (American Institutions) and Humanities and Cultural Breadth and Communication and Analytical Thinking

Students with a Bachelor's degree awarded from a U.S. regionally accredited college will not need to take any additional general education courses, as these requirements have been fulfilled with the Bachelor's degree.

Total: 71

OCCUPATIONAL STUDIES

Occupational Studies Degree: BS

Program code: SAC.OS.BS

Program Control Number: 34014

The baccalaureate degree in Occupational Studies will create a more highly skilled occupational therapy assistant (OTA) who is better able to understand and utilize research-based evidence for best practice and take on a leadership role. As an additional benefit it will prepare an OTA for entry into an Occupational Therapy (OT) Master's degree program. The upper division course work will provide more in-depth training in specific areas of OT practice, including neurologic rehabilitation, musculoskeletal rehabilitation, pediatrics, geriatrics, and key practice areas identified by the American Occupational Therapy Association. These courses, together with a capstone project will also provide increased opportunities for critical analysis, research methods, and clinical reasoning. To complete the Bachelor of Science in Occupational Studies, students must complete: (1) complete all upper division course requirements with a grade of "C" or better; (2) complete 37 units of IGETC lower division general education coursework or 39 units of CSU GE Breadth lower division general education coursework.

Prerequisite: Associate Degree from an ACOTE and regionally accredited OTA program and OTA Certification/ License

Learning Outcome(s):

1. Demonstrate advanced mastery of Occupational Therapy Assistant (OTA) clinical skills, including clinical reasoning, that follow the guidelines established in the Occupational Therapy Practice Framework: Domain and Process.
2. Relate theory and research to clinical practice areas.
3. Provide OTA services that meet the community needs of diverse populations demonstrating sensitivity and empathy.
4. Participate in advocacy for clients in clinical and community settings.

Required lower division courses specific to the BS Degree		**Units:**	**14**
PSYC 210	Statistics for the Behavioral Sciences	4	
SOC 100	Introduction to Sociology	3	
PHIL 108	Ethics	3	
PHYS 109	Survey of General Physics	4	
Required upper division major courses		**Units:**	**30**
OS 301	Therapeutic Approaches to the Older Adult	3	
OS 304	Movement Theory & Analysis	3	
OS 305	Advanced Pediatric Practice for the Occupational Therapy Assistant (OTA)	3	
OS 310	Community-Based Occupational Therapy Practice	3	
OS 312	Advanced Practice Areas in Occupational Therapy (OT)	3	
OS 325	Applying Research to Occupational Therapy Intervention	3	
OS 402	Neurological Principles in Human Performance	4	
OS 403	Leadership for the Occupational Therapy Assistant (OTA)	2	
OS 410	Healthcare Systems	3	
OS 412	Capstone Seminar	3	
Required upper division general education courses		**Units:**	**10**
MATH 319	Quantitative Research Methods for Healthcare Professionals	4	
CMST 307	Health Communication	3	
SOC 401	The Sociology of Health, Illness, and Healing	3	
		Total:	**54**

PARALEGAL

Paralegal Degree: AA

Program code: SAC.PARA.AA

Program Control Number: 10629

This American Bar Association (ABA) approved program is designed to qualify students to work as a Paralegal/Legal Assistant as defined by section 6450 of the California Business and Professions Code, who are qualified by education, who either contracts with or is employed by an attorney, law firm, corporation, governmental agency, or other entity, and who performs substantial legal work under the direction and supervision of an active member of the State Bar of California, as defined in Section 6060, or an attorney practicing law in the federal courts of this state, that has been specifically delegated by the attorney to him or her.

This program is not designed to prepare students for the practice of law.

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

1. Make ethical decisions in the workplace.
   a. Students will complete PARA 121.
   b. Students will incorporate ethical standards in PARA 101 through problem solving and discussion board discussions.
2. Understand legal concepts.
   a. Students will demonstrate legal concepts in the legal specialty classes through examination and practical exercises.
   b. Students will draft law office memorandum and appellate briefs in PARA 248, incorporating analysis of legal concepts.
3. Communicate effectively orally and in writing.
   a. Students will draft law office memorandum.
   b. Students will use proper grammar, punctuation, and spelling.
   c. Students will create client correspondence.
4. Be proficient in using legal technology.
   a. Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
   b. Students will complete assignments using legal-specific software in PARA 120 Computers in the Law Office.
5. Exhibit critical thinking skills.
   a. Students will analyze cases related to the legal specialty classes.
   b. Students will analyze fact patterns to demonstrate the application of legal concepts to fact patterns.

   All courses must be passed with a C grade or better with the exception of PARA 297, which is pass/ no pass.

Specific General Education Requirements for the degree:

The ABA additionally specifies that a student must complete a minimum of 18 semester units of ABA approved general education courses from at least 3 disciplines in the areas of language and composition, mathematics, social science and behavioral sciences, natural sciences, humanities and the arts. This excludes courses in kinesiology, counseling, performing arts, accounting, computer science, technical writing, business mathematics, keyboarding, and business law. Students are urged to seek counseling prior to enrollment to insure that college general education choices satisfy this requirement.

Major requirements for students seeking the degree:

Students must complete the program within 5 years or repeat any legal specialty courses which were completed more than 5 years prior to graduation. Legal specialty courses subject to these requirements are marked with an asterisk (*). The ABA requires the degree to have a minimum of 60 semester units. In addition to meeting the ABA general education and unit requirements, students are required to meet the AA degree requirements as set forth in the current catalog.

Learning Outcome(s):

1. Make ethical decisions in the workplace.
2. Understand legal concepts.
3. Communicate effectively orally and in writing.
4. Be proficient in using legal technology.
5. Exhibit critical thinking skills.
6. Understand the role of the Paralegal in the Legal Service Industry.

Students should take PARA 100 or LAW 100 prior to or concurrently with other legal specialty courses. Students must pass Para 246 with a C or better prior to taking PARA 248 and PARA 297. PARA 297 is intended to be taken in the final semester of the program.

Students must complete the program within 5 years or repeat any legal specialty courses which were completed more than 5 years prior to graduation. Legal specialty courses subject to these requirements are marked with an asterisk (*).

Core Courses for all Students		**Units:**	**37**
PARA 100	The Paralegal Profession	3	
–OR–			
LAW 100	Introduction to Legal Studies	3	
PARA 101	Law Office Management*	2	
PARA 120	Computers in the Law Office*	4	
PARA 121	Legal Ethical Reasoning	3	
–OR–			
LAW 121	Legal Ethical Reasoning	3	
PARA 145	Civil Litigation Overview*	4	
PARA 146	Tort Law and Alternative Dispute Resolution*	4	
PARA 150	Legal Transactions*	5	
PARA 246	Legal Research and Analysis	4	
PARA 248	Advanced Research and Writing	3	
PARA 297	The Professional Paralegal*	2	
LAW 105	The Legal Environment of Business	3	
–OR–			
BUS 105	Legal Environment of Business	3	
–OR–			
BUS 101	Business Law	3	

*Legal Specialty Course

Students must choose a minimum of 2 units from the legal elective courses. Students must meet the AA degree requirements as set forth in the appropriate catalog. In addition, students must demonstrate that they have completed 18 semester units of general education as defined by the American Bar Association.

Within the requirement for 18 semester credits or the equivalent of general education course work, students must take courses in at least three disciplines, such as social sciences, natural sciences, mathematics, humanities, foreign language, and English.

		Units:	**2**
PARA 105	Cooperative Work Experience Education - Occupational*	1-4	
PARA 107	Principles and Procedures in the Criminal Justice System	3	
PARA 122	Elder Law	2	
PARA 132	Family Law and Procedure	2	
PARA 133	Workers Compensation Law and Procedure	2	
PARA 134	Probate Law and Procedure	2	
PARA 135	Bankruptcy Law and Procedure	2	
PARA 137	Tort and Insurance Law	2	
PARA 136	Real Property Law and Procedure	2	
PARA 138	Law of Business Organizations	2	
PARA 139	Fundamentals of Labor Law	2	
PARA 140	Immigration Law and Procedure	2	
PARA 143	Civil Litigation Overview	2	
PARA 144	Introduction to eDiscovery	2	
PARA 147	International Commercial Agreements and Distribution Law	1	
PARA 148	International Intellectual Property Law	1	
PARA 149	The Law of Global Commerce	1	
PARA 299	Cooperative Work Experience Education	1-4	
LAW 110	Legal Terminology	2	
LAW 299	Cooperative Work Experience Education - Occupational	1-4	
		Total:	**39**

Paralegal: Certificate of Achievement *(Transcripted)*

Program code: SAC.PARA.CA

Program Control Number: 04237

This American Bar Association (ABA) approved program is designed to prepare students to work as a Paralegal/Legal Assistant as defined by section 6450 of the California Business and Professions Code, who are qualified by education, who either contracts with or is employed by an attorney, law firm, corporation, governmental agency, or other entity, and who performs substantial legal work under the direction and supervision of an active member of the State Bar of California, as defined in Section 6060, or an attorney practicing law in the federal courts of this state, that has been specifically delegated by the attorney to him or her.

This program is not designed to prepare students for the practice of law.

Learning Outcome(s):

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

1. Make ethical decisions in the workplace.
   a. Students will complete PARA 121.
   b. Students will incorporate ethical standards in PARA 101 through problem solving and discussion board discussions.
2. Understand legal concepts.
   a. Students will demonstrate legal concepts in the legal specialty classes through examination and practical exercises.
   b. Students will draft law office memorandum and appellate briefs in PARA 248, incorporating analysis of legal concepts.
3. Communicate effectively orally and in writing.
   a. Students will draft law office memorandum.
   b. Students will use proper grammar, punctuation, and spelling.
   c. Students will create client correspondence.
4. Be proficient in using legal technology.
   a. Students will demonstrate the use of the Microsoft suite (Word, PowerPoint and Excel) in their completion of assignments.
   b. Students will complete assignments using legal-specific software in Para 120 Computers in the Law Office.
   c. Students will analyze cases related to the legal specialty classes.
   d. Students will analyze fact patterns to demonstrate the application of legal concepts to fact patterns.

All courses must be passed with a C grade or better with the exception of PARA 297, which is pass/ no pass.

Specific General Education Requirements for the Certificate:

The ABA additionally specifies that a student must complete a minimum of 18 semester units of ABA approved general education courses from at least 3 disciplines in the areas of language and composition, mathematics, social science and behavioral sciences, natural sciences, humanities and the arts. This excludes courses in kinesiology, counseling, performing arts, accounting, computer science, technical writing, business mathematics, keyboarding, and business law. Students are urged to seek counseling prior to enrollment to insure that college general education choices satisfy this requirement.

Major requirements for students seeking the certificate:

Note: Students must complete the program within 5 years or repeat any legal specialty courses which were completed more than 5 years prior to graduation. Legal specialty courses subject to these requirements are marked with an asterisk (*).

Learning Outcome(s):

1. Make ethical decisions in the workplace.
2. Understand legal concepts.
3. Communicate effectively orally and in writing.
4. Be proficient in using legal technology.
5. Exhibit critical thinking skills.
6. Understand the role of the Paralegal in the Legal Service Industry.

Students should take PARA 100 or LAW 100 prior to or concurrently with other legal specialty courses. Students must pass PARA 246 with a C or better prior to taking PARA 248 and PARA 297. PARA 297 is intended to be taken in the final semester of the program.

Students must complete the program within 5 years or repeat any legal specialty courses which were completed more than 5 years prior to graduation. Legal specialty courses subject to these requirements are marked with an asterisk (*).

Core Courses for all Students		**U**nits:	37
PARA 100	The Paralegal Profession	3	
–OR–			
LAW 100	Introduction to Legal Studies	3	
PARA 101	Law Office Management*	2	
PARA 120	Computers in the Law Office*	4	
PARA 121	Legal Ethical Reasoning	3	
–OR–			
LAW 121	Legal Ethical Reasoning	3	
PARA 145	Civil Litigation Overview*	4	
PARA 146	Tort Law and Alternative Dispute Resolution*	4	
PARA 150	Legal Transactions*	5	
PARA 246	Legal Research and Analysis	4	
PARA 248	Advanced Research and Writing	3	
PARA 297	The Professional Paralegal*	2	
LAW 105	The Legal Environment of Business	3	
–OR–			
BUS 105	Legal Environment of Business	3	
–OR–			
BUS 101	Business Law	3	

Students must choose a minimum of 2 units from the legal elective courses. Students must demonstrate that they have completed 18 semester units of general education as defined by the American Bar Association. Within the requirement for 18 semester credits or the equivalent of general education course work, students must take courses in at least three disciplines, such as social sciences, natural sciences, mathematics, humanities, foreign language , and English. Students must complete a total of 60 semester units. The additional units for a minimum of 60 units, may be paralegal course electives or another academic college level course.

Legal Electives		**Units:**	**2-6**
PARA 105	Cooperative Work Experience Education - Occupational	1-4	
PARA 107	Principles and Procedures in the Criminal Justice System	3	
PARA 122	Elder Law	2	
PARA 132	Family Law and Procedure	2	
PARA 133	Workers Compensation Law and Procedure	2	
PARA 134	Probate Law and Procedure	2	
PARA 135	Bankruptcy Law and Procedure	2	
PARA 136	Real Property Law and Procedure	2	
PARA 137	Tort and Insurance Law	2	
PARA 138	Law of Business Organizations	2	
PARA 139	Fundamentals of Labor Law	2	
PARA 140	Immigration Law and Procedure	2	
PARA 143	Civil Litigation Overview	2	
PARA 144	Current Issues in Civil Litigation Discovery	2	
PARA 147	International Commercial Agreements and Distribution Law	1	
PARA 148	International Intellectual Property Law	1	
PARA 149	The Law of Global Commerce	1	
PARA 299	Cooperative Work Experience Education	1-4	
LAW 110	Legal Terminology	2	
LAW 299	Cooperative Work Experience Education - Occupational	1-4	
		Total: 39-43	

PHARMACY TECHNOLOGY

The Pharmacy Technology program is designed to prepare students for employment as pharmacy technicians. Pharmacy technicians assist pharmacists by performing the technical tasks related to the packaging and distribution of medication, including prescriptions. Careers for pharmacy technicians are available in drug stores, hospitals, compounding pharmacies, and managed care organizations. Pharmacy technicians also work in other specialized pharmacy practice sites, providing medications for patients in clinics, hospice, and long-term care facilities and for patients requiring home healthcare or home infusion services.

The Program coursework is based on the national "Model Curriculum for Pharmacy Technician Training" established by a consortium of professional organizations under the leadership of the American Society of Health-System Pharmacists (ASHP), 7272 Wisconsin Avenue, Bethesda, MD, 20814; phone (301) 657-3000. Following the ASHP model, the curriculum is sequenced to provide a foundation level of lecture courses, an application level of lab courses, and an experiential level of externships.

Although there are no specific entry prerequisites for the Pharmacy Technology program, students should have a good command of the English language, good basic math skills, and good verbal communication ability. Manual dexterity, hearing, and visual perception must be adequate to perform the technical tasks in the lab courses and externship. Prospective students are encouraged to attend a Pharmacy Technology program orientation meeting for a more complete overview of the requirements and recommendations. Information on dates and times for the orientation meetings can be obtained by calling the Division of Human Services and technology at 1-714-564-6800. To enroll, students must submit evidence of background clearance, urine drug test clearance, immunization records (or titer), and recent TB clearance.

The Pharmacy Technology program offers three training options for pharmacy technicians: The Basic Certificate, the Advanced Certificate, and the associate degree. All three training options conform to the requirements specified in section 1793.6 of Title 16 of the California Code of Regulations.

Students who complete only the Basic Certificate option are qualified primarily for jobs in drug stores or other outpatient pharmacy sites. By finishing the additional major courses required for the associate degree or the Advanced Certificate option, students are fully prepared for employment in any pharmacy practice setting. Students are strongly encouraged to complete the Basic Certificate option first and then continue through the remaining courses required for the Advanced Certificate or associate degree. Students with Bachelor or Associate degrees in any other field that have already completed their general education classes, are qualified to petition for the Associate degree in Pharmacy Technology upon completion of the Advanced

Certificate Requirement. Although the Pharmacy Technology training program is not part of the pre-pharmacy curriculum, students who plan to attend pharmacy school may enhance their chance of acceptance by completing the Advanced Certificate option.

Prior to obtaining employment, pharmacy technicians must be licensed by the California State Board of Pharmacy, 1625 North Market Blvd, Suite N219, Sacramento, CA 95834; phone 916-574-7937. Upon completion of any of the three training options, students are eligible to apply for a state Pharmacy Technician license under Qualifying Method A. Documentation will be provided by the program director using the "Affidavit of Completion of Coursework or Graduation" portion of the license application. Note that applicants must submit fingerprints for a Department of Justice background check, to be done at the applicant's expense. Applicants must also possess a high school diploma or GED and a valid social security number. License applications and complete information on the qualifications may be downloaded from the Board of Pharmacy's web site at www.pharmacy.ca.gov.

The California State Board of Pharmacy does not administer a board exam for pharmacy technicians. To become a certified pharmacy technician (CPhT), students must pass the national exam administered by the Pharmacy Technician Certification Board (PTCB), 1100 15th Street, NW, Suite 730 Washington, DC, 20005-1707; phone 800-363-8012. Information on the certification process can be obtained at **ptcb.org**. Note that the PTCB also requires applicants to have a high school diploma or GED.

Applicants for licensing and certification will be asked to answer questions related to misdemeanor and felony convictions, illegal drug use, and health issues that might impair their ability to practice safely. In its duty to protect the public, the Board of Pharmacy will refuse to issue a pharmacy technician license to anyone deemed unfit to practice. Individuals with criminal backgrounds may also be prohibited from taking the national certification exam.

Pharmacy Technology Degree: AS

Program code: SAC.PHAR.AS

Program Control Number: 04230

In addition to the general education requirement, the associate degree includes the full-spectrum training required for employment in all pharmacy practice settings. Upon completion of the associate degree, graduates will meet the academic training requirements for licensing with the California State Board of Pharmacy. Graduates will also be well prepared for the Pharmacy Technician Certification Board exam.

The major course requirements for the associate degree consists of the same 20.0 units of coursework listed in the Basic Certificate option, including the 1.5 units outpatient externship rotation. In addition to completing two additional academic courses (PHAR 057 and PHAR 060), students choosing the associate degree must perform 240 additional hours (5 additional units) of externship, involving rotations in inpatient and sterile products pharmacy services. Students will be placed in the hospital and/or home infusion setting to complete these rotations. Background checks, health screenings, and/or drug testing will be required prior to lab classes. Any required investigations are done at the student's expense. In addition, completion of a Communication Studies class (Communication Studies 097, or 101, or 101H, or 102) is a pre-requisite for externship. Students are expected to understand and agree to abide by the Program Guidelines, which include technician standards and essential functions for pharmacy technicians.

The associate degree is accredited by the American Society of Health-System Pharmacists (ASHP). Students must complete each required course with a grade of "C" or better (0.5 unit of PHAR 060L or other L-series lab classes and externship with a grade of "P") to qualify for the degree option.

All courses are required to be completed within a 3-year period to be eligible for Pharmacy Technology program enrollment and certificate/degree.

Learning Outcome(s):

1. Prepare the California Board of Pharmacy application for licensing as a Pharmacy Technician in a timely manner.
2. Prepare a polished resume for Pharmacy Technician job interviews, highlighting your advanced technical skills and Associates of Science in Pharmacy Technology.
3. Complete the Pharmacy Technician Certification Board Exam successfully.

Required Core Courses:		**Units:**
27-32.5		
PHAR 048	Introduction to Pharmacy Technology	2
PHAR 051	Body Systems I	3.5
PHAR 052	Body Systems II	3.5
PHAR 056	Pharmacy Operations	4.5
PHAR 057	Inpatient Pharmacy Services	2
PHAR 060	Sterile Products	4.5
PHAR 060L	Pharmacy Technology Skills Lab	0.5-1
–OR–		
PHAR 057L	Pharmacy Technology Skills Lab	0.5-1
–OR–		
PHAR 056L	Pharmacy Technology Skills Lab	0.5-1
–OR–		
PHAR 072L-1	Pharmacy Technology Skills Lab	0.5-1
CMST 101	Introduction to Interpersonal Communication	3
–OR–		
CMST 101H	Honors Introduction to Interpersonal Communication	3
–OR–		
CMST 102	Public Speaking	3
–OR–		
CMST 097	American English Conversational Skills	3
PHAR 054A	Beginning Pharmacy Calculations	1
PHAR 054B	Advanced Pharmacy Calculations	1
PHAR 072A	Pharmacy Technology Externship Outpatient	0.5-1.5
–AND–		
PHAR 072B	Pharmacy Technology Externship Inpatient	0.5-2.5
–AND–		
PHAR 072C	Pharmacy Technology Externship Sterile Products	0.5-2.5

Recommended electives		**Units:**	**0**
BIOL 139	Health Microbiology	4	
BIOL 149	Human Anatomy and Physiology	4	
CHEM 109	Chemistry in the Community	4	
CHEM 119	Fundamentals - General and Organic	5	
CMPR 100	The Computer and Society	3	
		Total:	**27-32.5**

Pharmacy Technology Advanced Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.PHARA.CA

Program Control Number: 21789

The Pharmacy Technology Advanced Certificate Option includes the full-spectrum training required for employment in all pharmacy practice settings. Upon completion of the Advanced Certificate, graduates will meet the academic training requirements for licensing with the California State Board of Pharmacy. Graduates will also be well prepared for the Pharmacy Technician Certification Board exam.

The major course requirements for the Advanced Certificate consists of the same 20.0 units of coursework listed in the Basic Certificate option, including the one-unit outpatient externship rotation. In addition to completing two additional academic courses (PHAR 057 and PHAR 060), students choosing the Advanced Certificate option must perform 240 additional hours (three additional units) of externship, involving rotations in inpatient and sterile products pharmacy services. Students will be placed in the hospital and/or home infusion setting to complete these rotations. Background checks, health screenings, and/or drug testing will be required prior to lab classes. Any required investigations are done at the student's expense. In addition, completion of a Communication Studies class (Communication Studies 097, or 101, or 101H, or 102) is a prerequisite for externship. Students are expected to understand and agree to abide by the Program Guidelines, which include technician standards and essential functions for pharmacy technicians.

The Advanced Certificate option is accredited by the American Society of Health-System Pharmacists (ASHP). Students must complete each required course with a grade of "C" or better (0.5 unit of PHAR 060L or other L-series lab classes and externship with a grade of "P") to qualify for the Advanced Certificate. All courses are required to be completed within a 3-year period to be eligible for Pharmacy Technology program enrollment and certificate/degree.

Learning Outcome(s):

1. Prepare a polished resume for Pharmacy Technician job interviews, highlighting your advanced technical skills.
2. Complete the Pharmacy Technician Certification Board Exam successfully.
3. Prepare the California Board of Pharmacy application for licensing as a Pharmacy Technician in a timely manner.

Required Core Courses:		**Units:**	**27-32.5**
PHAR 048	Introduction to Pharmacy Technology	2	
PHAR 051	Body Systems I	3.5	
PHAR 052	Body Systems II	3.5	
PHAR 056	Pharmacy Operations	4.5	
PHAR 057	Inpatient Pharmacy Services	2	
PHAR 060	Sterile Products	4.5	
PHAR 056L	Pharmacy Technology Skills Lab	0.5-1	
–OR–			
PHAR 057L	Pharmacy Technology Skills Lab	0.5-1	
–OR–			
PHAR 060L	Pharmacy Technology Skills Lab	0.5-1	
–OR–			
PHAR 072L-1	Pharmacy Technology Skills Lab	0.5-1	
–OR–			
PHAR 084L	Pharmacy Technology Skills Lab	0.5-1	
CMST 101	Introduction to Interpersonal Communication	3	
–OR–			
CMST 102	Public Speaking	3	
–OR–			
CMST 097	American English Conversational Skills	3	
–OR–			
CMST 101H	Honors Introduction to Interpersonal Communication	3	
PHAR 054A	Beginning Pharmacy Calculations	1	
PHAR 054B	Advanced Pharmacy Calculations	1	
PHAR 072A	Pharmacy Technology Externship Outpatient	0.5-1.5	
–AND–			
PHAR 072B	Pharmacy Technology Externship Inpatient	0.5-2.5	
–AND–			
PHAR 072C	Pharmacy Technology Externship Sterile Products	0.5-2.5	
Recommended electives		**Units:**	**0**
BA 115A	Computer Keyboarding Speed and Accuracy Development	1	
BIOL 149	Human Anatomy and Physiology	4	
CHEM 109	Chemistry in the Community	4	
CMPR 100	The Computer and Society	3	
		Total:	**27-32.5**

Pharmacy Technology Basic Option: Certificate of Achievement *(Transcripted)*

Program code: SAC.PHARB.CA

Program Control Number: 18780

The Basic Certificate option prepares students for entry-level employment as pharmacy technicians in the retail pharmacy sector. By completing the Basic Certificate option, students will meet the minimum academic training requirements for licensing as specified by the California State Board of Pharmacy.

Students who intend to complete only the Basic Certificate option will be placed for a minimum of 80 hours of externship in an outpatient (drug store or ambulatory care clinic) pharmacy site to gain workplace experience.

Background checks, health screenings, and/or drug testing will be required prior to lab classes. Any required investigations are done at the student's expense. In addition, completion of a Communication Studies class (Communication Studies 097, or 101, or 101H, or 102) is a pre- requisite for externship. Students are expected to understand and agree to abide by the Program Guidelines, which include technician standards and essential functions for pharmacy technicians.

The Basic Certificate option is not accredited by the American Society of Health-Systems Pharmacists (ASHP). Students who earn the Basic Certificate and then continue through the Advanced Certificate will be designated as having completed an ASHP-accredited program. Students must complete each required course with a grade of "C" or better (Externship with a grade of "P") to qualify for the Basic Certificate.

All courses are required to be completed within a 3-year period to be eligible for Pharmacy Technology program enrollment and certificate/degree.

Learning Outcome(s):

1. Prepare a polished resume for Pharmacy Technician job interviews.
2. Prepare the California Board of Pharmacy application for licensing as a Pharmacy Technician in a timely manner.
3. Complete the Pharmacy Technician Certification Board Exam successfully.

Required Core Courses:		**Units: 19-20**
PHAR 048	Introduction to Pharmacy Technology	2
PHAR 051	Body Systems I	3.5
PHAR 052	Body Systems II	3.5
PHAR 056	Pharmacy Operations	4.5
CMST 101	Introduction to Interpersonal Communication	3
–OR–		
CMST 101H	Honors Introduction to Interpersonal Communication	3
–OR–		
CMST 102	Public Speaking	3
–OR–		
CMST 097	American English Conversational Skills	3
PHAR 054A	Beginning Pharmacy Calculations	1
PHAR 054B	Advanced Pharmacy Calculations	1
PHAR 072A	Pharmacy Technology Externship Outpatient	0.5-1.5
Recommended electives		**Units:**
BIOL 139	Health Microbiology	4
CHEM 109	Chemistry in the Community	4
CHEM 119	Fundamentals - General and Organic	5
CMPR 100	The Computer and Society	3
PHAR 056L	Pharmacy Technology Skills Lab	0.5-1
–OR–		
PHAR 072L-1	Pharmacy Technology Skills Lab	0.5-1
		Total: 19-20

PHILOSOPHY

Philosophy Degree: AA

Program code: SAC.PHIL.AA

Program Control Number: 04240

The associate degree curriculum in philosophy prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree. The baccalaureate degree is intended for those students who plan to teach philosophy, or for pre-professional students in such areas as theology and law, and as a foundation for graduate studies in the areas of library science, diplomacy, theoretical physical science, and specialized historical studies.

Learning Outcome(s):

Upon succesful completion of this program, students will be able to:

1. Demonstrate strong skills in critical thinking, logical analysis, and analytical writing
2. Demonstrate an understanding of the core historical and contemporary ideas central to the discipline

Required Core Courses:		**Units:**	**16**
PHIL 106	Introduction to Philosophy	3	
–OR–			
PHIL 106H	Honors Introduction to Philosophy	3	
PHIL 108	Ethics	3	
PHIL 110	Critical Thinking	4	
–OR–			
PHIL 110H	Honors Critical Thinking	4	
–OR–			
PHIL 111	Introductory Logic	4	
PHIL 112	World Religions	3	
PHIL 118	History of Philosophy	3	

A minimum of six elective units to be selected from the following		**Units:**	**6**
ART 101	Survey of Western Art History I: Prehistory through the Middle Ages	3	
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3	
ENGL 233A	Shakespeare's Comedies and Romances	3	
ENGL 233B	Shakespeare's Tragedies and History Plays	3	
ENGL 233C	Shakespeare's Theatre	3	
ENGL 271	Survey of World Literature I	3	
ENGL 272	Survey of World Literature II	3	
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
HIST 102	World Civilizations Since the 16th Century	3	
–OR–			
HIST 102H	Honors World Civilizations Since the 16th Century	3	
IDS 121	Humanities Through the Arts	3	
MUS 101	Music Appreciation	3	
–OR–			
MUS 101H	Honors Music Appreciation	3	
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
		Total:	**22**

Philosophy Degree for Transfer: AA-T

Program code: SAC.PHIL.AAT

Program Control Number: 33220

The Associate in Arts in Philosophy for Transfer is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Philosophy. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU in the Philosophy major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.**

Upon completion of the AA-T in Philosophy students will have an understanding of the core historical and contemporary ideas central to the discipline of philosophy. Students will also have the critical thinking, logical analysis, and analytical writing skills instrumental for success across academic disciplines.

Learning Outcome(s):

Upon succesful completion of this program, students will be able to:

1. Demonstrate strong skills in critical thinking, logical analysis, and analytical writing
2. Demonstrate an understanding of the core historical and contemporary ideas central to the discipline

Required Core Courses:		**Units:**	**7**
PHIL 111	Introductory Logic	4	
PHIL 106	Introduction to Philosophy	3	
–OR–			
PHIL 106H	Honors Introduction to Philosophy	3	
–OR–			
PHIL 108	Ethics	3	
LIST A: Select one course (3-4 units)		**Units:**	**3-4**
PHIL 110	Critical Thinking	4	
–OR–			

PHIL 110H	Honors Critical Thinking	4
–OR–		
PHIL 112	World Religions	3
–OR–		
PHIL 118	History of Philosophy	3
LIST B: Select two courses from list A not already used (6-7 units)		**Units: 6-7**
LIST C: Select any course from list A or list B not already used or one of the following (3-4 units)		**Units: 3-4**
–OR–		
HIST 101	World Civilizations to the 16th Century	3
–OR–		
HIST 101H	Honors World Civilizations to the 16th Century	3
–OR–		
HIST 102	World Civilizations Since the 16th Century	3
–OR–		
HIST 102H	Honors World Civilizations Since the 16th Century	3
		Total: 19-22

PHOTOGRAPHY

Photography Degree: AA

Program code: SAC.PHOT.AA

Program Control Number: 04224

The associate of arts degree in photography provides a foundation in basic photography processes combined with a high level of creative opportunity and individual expression. Enrollment in this program prepares transfer students to enter advanced degree programs at four-year institutions as well as to enter the field of photography in positions such as studio photographer, fashion photographer, museum/gallery photographer, photo journalist, and freelance photographer. Please consult a SAC counselor for information about course requirements for particular four-year institutions.

Learning Outcome(s):

1. Demonstrate visual literacy, including competency in the nonverbal languages of art and design.
2. Demonstrate competency in critical analysis and verbal and written responses to visual phenomena.
3. Possess general knowledge of the monuments, movements and principal artists of major art periods of the past and contemporary thinking on art, design and photography.

Required Core Courses:		**Units: 27.5-28.5**
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3
–OR–		
PHOT 150	History of Photography	3
ART 110	Two-Dimensional Design	3
ART 124	Gallery Production	2
PHOT 009	Photography Lab	0.5-1.5
PHOT 180	Beginning Photography	3
PHOT 185A	Landscape Photography	3
PHOT 191	Commercial Studio Practices	3
PHOT 194	Digital Workflow	3
PHOT 196	Introduction to Commercial Photography	3
PHOT 291	Wedding and Quinceañera Photography	3
PHOT 292	Portrait Photography	3
Plus 3 units from the following courses:		
ART 162	Digital Design with Photoshop-I	3
ART 195	Introduction to Digital Media Arts	3
PHOT 185B	Landscape Photography	3
PHOT 197	Intermediate Commercial Photography	3
PHOT 294	Color Photographic Expression	3
		Total: 30.5-31.5

Commercial Photography: Certificate of Achievement

(Transcripted)

Program code: SAC.PHOT.CA

Program Control Number: 21787

The digital photography certificate program is an intensive course of study focused on providing the student with a broad base of technical skills with additional emphasis on visual communication.

Career positions include production printer, studio photographer and freelance photographer.

Learning Outcome(s):

1. Demonstrate visual literacy, including competency in the nonverbal languages of art and design.
2. Demonstrate competency in critical analysis and verbal and written responses to visual phenomena.
3. Possess the aesthetic knowledge and technical skills necessary in digital photography, including wedding, Quinceañera and commercial, to begin a career as a production printer, studio photographer or freelance photographer.

Required Core Courses:		**Units: 18.5-19.5**
PHOT 009	Photography Lab	0.5-1.5
PHOT 180	Beginning Photography	3
PHOT 185A	Landscape Photography	3
PHOT 191	Commercial Studio Practices	3
PHOT 194	Digital Workflow	3
PHOT 196	Commercial Photography	3
PHOT 291	Wedding and Quinceañera Photography	3
Electives 3 units must be chosen from the following courses:		**Units: 3**
ART 124	Gallery Production	2
ART 129	Introduction to Web Design	3
ART 162	Digital Design with Photoshop-I	3
BUS 170	Principles of Small Business Management	3
PHOT 150	History of Photography	3
PHOT 292	Portrait Photography	3
		Total: 21.5-22.5

PHYSICS

Physics Degree: AS

Program code: SAC.PHYS.AS

Program Control Number: 04244

The associate degree curriculum in physics prepares students to move into a curriculum at a four-year institution leading to a baccalaureate, and then into careers in applied physics, research and development, and/or as assistant research scientists.

Learning Outcome(s):

1. Students will develop communication via coherent and succinct scientific writing, creative and critical thinking for problem solving, and technical competence in the use of computerized sensors, software, and programming for scientific purposes.

Required Core Courses:		**Units:**	**24**
PHYS 217	Engineering Physics I	4	
PHYS 227	Engineering Physics II	4	
PHYS 237	Engineering Physics III	4	
MATH 180	Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
MATH 280	Intermediate Calculus	4	
		Total:	**24**

Physics Degree for Transfer: AS-T

Program code: SAC.PHYS.AST

Program Control Number: 32989

Option 2 Associate in Science in Physics ior Transfer (sac.phys.ast) **See page 29** **for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** In addition to the A.S-T degree requirements, students are encouraged to complete additional courses, that may be articulated as major preparation, prior to transfer. Some typical courses that may be articulated are Mathematics 287, Mathematics 290, Chemistry 219, and Computer Science 120. While these additional courses are not required for this degree, they will better prepare students for upper-division Physics coursework at a CSU. Upon completion of the A.S-T, students will become grounded in the fundamental physical laws as well as quantitative and analytical reasoning. Upon completion of the baccalaureate degree in Physics, students may then move in to careers in applied physics, education, and/or as assistant research scientists.

Learning Outcome(s):

1. Students will develop communication via coherent and succinct scientific writing, creative and critical thinking for problem solving, and technical competence in the use of computerized sensors, software, and programming for scientific purposes.

Required Core Courses:		**Units:**	**24**
PHYS 217	Engineering Physics I	4	
PHYS 227	Engineering Physics II	4	
PHYS 237	Engineering Physics III	4	
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
MATH 185	Single Variable Calculus II	4	
MATH 280	Intermediate Calculus	4	
		Total:	**24**

POLITICAL SCIENCE

Political Science Degree: AA

Program code: SAC.POLT.AA

Program Control Number: 04259

The associate degree curriculum in political science prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree. The baccalaureate degree prepares students for law school, teaching, public relations, journalism, government service on the local, state and national levels, and private employment where government institutions are involved.

Learning Outcome(s):

1. Students who complete an A.A./A.A.T. in Political Science will demonstrate an understanding of American and international political institutions.

Required Core Courses:		**Units:**	**3**
POLT 101	American Government and Politics	3	
–OR–			
POLT 101H	Honors American Government and Politics	3	
9 units from 3 courses below.			
POLT 201	Introduction to Comparative Politics	3	
POLT 220	International Politics	3	
POLT 235	Identity Politics	3	
POLT 200	American Political Thought	3	
–OR–			
POLT 200H	Honors American Political Thought	3	
4 units from courses below.			
ENGL 101	Freshman Composition	4	
–OR–			
ENGL 101H	Honors Freshman Composition	4	
Elective 9 units. Select electives from the following list.			
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
CMPR 100	The Computer and Society	3	
ECON 120	Principles/Macro	3	
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
HIST 102	World Civilizations Since the 16th Century	3	
–OR–			
HIST 102H	Honors World Civilizations Since the 16th Century	3	
HIST 120	The United States to 1865	3	
–OR–			
HIST 120H	Honors The United States to 1865	3	
HIST 150	Latin American Civilization to Independence	3	
HIST 151	Modern Latin American Civilization	3	
HIST 153	History of Mexico	3	
PHIL 106	Introduction to Philosophy	3	
–OR–			
PHIL 106H	Honors Introduction to Philosophy	3	
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
SOC 100	Introduction to Sociology	3	
–OR–			
SOC 100H	Honors Introduction to Sociology	3	
CMST 140	Argumentation and Debate	3	
		Total:	**25**

Political Science Degree for Transfer: AA-T

Program code: SAC.POLT.AAT

Program Control Number: 31859

The Associate in Arts in Political Science for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in Political Science. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Political Science major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AA-T in Political Science students will have an understanding of both the breadth and depth of the political science discipline. This knowledge will be grounded in the comprehension of political science principles, concepts, ideas, theories, research, and terminology. Students will also have the capacity to write and think in a critical and analytical way about issues pertaining to politics, government, and society.

Requirements

The following is required for all AA-T or AS-T degrees:

Minimum of 60 CSU-transferable semester units (SAC courses numbered 100 and above).

Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major as detailed in the College Credit Instructional Programs section of the catalog. All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis (title 5 § 55063).

Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) (**see page 36** for more information); –OR– the Intersegmental General Education Transfer Curriculum (IGETC) pattern (**see page 38** for more information). Completion of Santa Ana College local general education requirements (Plan A) does not meet the requirement for AA-T and AS-T degrees.

Learning Outcome(s):

1. Students who complete an AA/AAT in Political Science will demonstrate an understanding of American and international political institutions

Required Core Courses:		**Units:**	**3**
POLT 101	American Government and Politics	3	
–OR–			
POLT 101H	Honors American Government and Politics	3	
List A (select 3 courses)		**Units:**	**13**
POLT 201	Introduction to Comparative Politics	3	
POLT 220	International Politics	3	
POLT 200	American Political Thought	3	
–OR–			
POLT 200H	Honors American Political Thought	3	
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
–OR–			
PSYC 210	Statistics for the Behavioral Sciences	4	
List B (select two courses) Choose from any courses not selected above and/or a below course.)		**Units:**	**6-7**
POLT 235	Identity Politics	3	
–OR–			
ECON 120	Principles/Macro	3	
–OR–			
ECON 121	Principles/Micro	3	
		Total:	**19-23**

PSYCHOLOGY

Psychology Degree: AA

Program code: SAC.PSYC.AA

Program Control Number: 04247

Learning Outcome(s):

1. Demonstrate familiarity with the major concepts, theoretical perspectives, research methods, core empirical findings, career pathways, and historic trends in psychology.
2. Understand the impact of diversity on psychological research, theory and application, including (but not limited to): age, race, ethnicity, culture, gender, socio-economic status, disability, and sexual orientation.
3. Have an understanding of the relationship between biology and psychological processes as it relates to typical, atypical, and psychopathological behavior and mental processes.
4. Be able to think critically and objectively, problem-solve, and employ the scientific method of inquiry to address psychological questions.
5. Be able to conduct academic research, understand the logic of statistical methods, and determine the validity and relevance of the research literature.
6. Be able to conduct descriptive and inferential statistics on data sets, understand the logic of hypothesis testing and apply this logic to the evaluation and interpretation of research data and findings.
7. Have an understanding of the logic of hypothesis testing and apply this logic to the evaluation and interpretation of research data and findings.
8. Be able adequately distinguishing between primary and secondary sources and communicate in writing using the standards and conventions of the American Psychological Association.

The associate degree in psychology prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree for specialization in any of more than twenty branches of psychology including child, clinical, personal, vocational and marriage counseling, industrial, mental health, and college teaching. Completion of the two-year program is appropriate for students whose career plans include helping people, e.g., teaching, social welfare, probation, criminology, nursing, law, or personnel work. Consult a counselor for information about course requirements for specific universities.

Required Core Courses:		**Units:**	**10**
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
–AND–			
PSYC 210	Statistics for the Behavioral Sciences	4	
–OR–			
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219H	Honors Statistics and Probability	4	
–AND–			
PSYC 219	Introduction to Research Methods in Psychology	3	

Two courses from the following psychology electives:

PSYC 140	Introduction to Psychology of Adulthood and Aging	3
PSYC 157	Introduction to Child Psychology	3
PSYC 170	Multicultural Psychology	3
PSYC 180	Introduction to Lifespan Psychology	3
PSYC 200	Introduction to Biological Psychology	3
PSYC 230	Psychology and Effective Behavior	3
PSYC 240	Introduction to Social Psychology	3
PSYC 250	Introduction to Abnormal Psychology	3

One additional elective from the psychology courses above or from the following:

ANTH 100	Introduction to Cultural Anthropology	3
–OR–		
ANTH 100H	Honors Introduction to Cultural Anthropology	3
ANTH 101	Introduction to Physical Anthropology	3
BIOL 109	Fundamentals of Biology	3
–OR–		
BIOL 109H	Honors Fundamentals of Biology	3
BIOL 149	Human Anatomy and Physiology	4
CHEM 109	Chemistry in the Community	4
CHEM 119	Fundamentals - General and Organic	5
CMPR 100	The Computer and Society	3
IDS 155	Human Sexuality	3
KNPR 125	Sport Psychology	3
PHIL 110	Critical Thinking	4
–OR–		
PHIL 110H	Honors Critical Thinking	4
PHIL 111	Introductory Logic	4
SOC 100	Introduction to Sociology	3
–OR–		
SOC 100H	Honors Introduction to Sociology	3
	Total:	**19**

Psychology Degree for Transfer: AA-T

Program code: SAC.PSYC.AAT

Program Control Number: 30670

The Associate in Arts in Psychology for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in psychology. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU, Fullerton, in the Psychology major. Upon completion of of the AA-T in Psychology, students will have a general understanding of main psychological theories as they pertain to development, personality, psychological disorders, learning, memory, and social dynamics as well as an understanding of the physiological basis of human behavior. This knowledge base will be grounded in the understanding of basic research methodology. Additionally, students will have the capacity to write and think in a critically analytical way about issues pertaining to human behavior and mental processes. Completion of the AA-T is appropriate for students whose career plans include helping people, i.e., teaching, social welfare, probation, criminology, nursing, law, or personnel work.

Learning Outcome(s):

1. Demonstrate familiarity with the major concepts, theoretical perspectives, research methods, core empirical findings, career pathways, and historic trends in psychology.
2. Understand the impact of diversity on psychological research, theory and application, including (but not limited to): age, race, ethnicity, culture, gender, socio-economic status, disability, and sexual orientation.
3. Have an understanding of the relationship between biology and psychological processes as it relates to typical, atypical, and psychopathological behavior and mental processes.
4. Be able to think critically and objectively, problem-solve, and employ the scientific method of inquiry to address psychological questions.
5. Be able to conduct academic research, understand the logic of statistical methods, and determine the validity and relevance of the research literature.
6. Be able to conduct descriptive and inferential statistics on data sets, understand the logic of hypothesis testing and apply this logic to the evaluation and interpretation of research data and findings.
7. Have an understanding of the logic of hypothesis testing and apply this logic to the evaluation and interpretation of research data and findings.
8. Be able adequately distinguishing between primary and secondary sources and communicate in writing using the standards and conventions of the American Psychological Association.

Required Core Courses:(10 Units)		**Units:**
PSYC 210	Statistics for the Behavioral Sciences	4
–OR–		
MATH 219	Statistics and Probability	4
–OR–		
MATH 219H	Honors Statistics and Probability	4
–AND–		
PSYC 100	Introduction to Psychology	3
–OR–		
PSYC 100H	Honors Introduction to Psychology	3
–AND–		
PSYC 219	Introduction to Research Methods in Psychology	3

List A - select one course (3 units)

BIOL 109	Fundamentals of Biology	3
–OR–		
BIOL 109H	Honors Fundamentals of Biology	3
–OR–		
PSYC 200	Introduction to Biological Psychology	3

List B - select one course below (4 units) or any course not selected from List A

ENGL 101	Freshman Composition	4
–OR–		
ENGL 101H	Honors Freshman Composition	4

List C - select one course below (3-5 units) or any course not selected from List A or List B

ANTH 100	Introduction to Cultural Anthropology	3
–OR–		
ANTH 100H	Honors Introduction to Cultural Anthropology	3
–OR–		
ANTH 101	Introduction to Physical Anthropology	3
–OR–		

ANTH 104	Language and Culture	3
–OR–		
ANTH 104H	Honors Language and Culture	3
–OR–		
BIOL 177	Human Genetics	3
–OR–		
BIOL 211	Cellular and Molecular Biology	5
–OR–		
BIOL 239	General Human Anatomy	4
–OR–		
CHEM 119	Fundamentals - General and Organic	5
–OR–		
CHEM 209	Introductory Chemistry	4
–OR–		
CHEM 219	General Chemistry	5
–OR–		
CHEM 219H	Honors General Chemistry	5
–OR–		
ENGL 102	Literature and Composition	4
–OR–		
ENGL 102H	Honors Literature and Composition	4
–OR–		
ENGL 103	Critical Thinking and Writing	4
–OR–		
ENGL 103H	Honors Critical Thinking and Writing	4
–OR–		
ENGL 104	Language and Culture	3
–OR–		
ENGL 104H	Honors Language and Culture	3
–OR–		
CDEV 107	Child Growth and Development (DS1)	3
–OR–		
MATH 105	Mathematics for Liberal Arts Students	3
–OR–		
MATH 140	College Algebra	4
–OR–		
MATH 145	Finite Mathematics	4
–OR–		
MATH 150	Calculus for Biological, Management and Social Sciences	4
–OR–		
MATH 162	Trigonometry	4
–OR–		
MATH 170	Pre-Calculus Mathematics	4
–OR–		
MATH 180	Single Variable Calculus I	4
–OR–		
MATH 180H	Honors Single Variable Calculus I	4
–OR–		
PSC 115	Concepts in Physical Sciences for Educators	4
–OR–		
PHYS 109	Survey of General Physics	4
–OR–		
PHYS 210	Principles of Physics I	4
–OR–		
PHYS 217	Engineering Physics I	4
–OR–		
PHYS 279	College Physics I	4
–OR–		
PSYC 140	Introduction to Psychology of Adulthood and Aging	3
–OR–		
PSYC 157	Introduction to Child Psychology	3
–OR–		
PSYC 170	Multicultural Psychology	3
–OR–		
PSYC 180	Introduction to Lifespan Psychology	3
–OR–		
PSYC 230	Psychology and Effective Behavior	3
–OR–		
PSYC 240	Introduction to Social Psychology	3
–OR–		
PSYC 250	Introduction to Abnormal Psychology	3
–OR–		
SOC 100	Introduction to Sociology	3
–OR–		
SOC 100H	Honors Introduction to Sociology	3
–OR–		
SOC 140	Social Problems	3
–OR–		
SOC 140H	Honors Analysis of Social Trends and Problems	3
–OR–		
SOC 240	Introduction to Social Psychology	3
	Total:	**20-22**

SCIENCE

Astronomy Emphasis Degree: AS

Program code: SAC.SCI.AS

Program Control Number: 04264

The associate degree in science is designed to provide students with a foundation in science that will allow transfer to a four-year college or university to complete a baccalaureate science degree in disciplines such as astronomy, biology, biochemistry, chemistry, geology, geophysics, meteorology, oceanography, or physics. For transfer with upper division standing, most four-year institutions require a minimum of one year of calculus and one year of general chemistry in addition to the courses required in the science major. Check with the Santiago Canyon College/Santa Ana College Transfer Center or counselor for specific transfer requirements. Units used to satisfy the Santiago Canyon College/Santa Ana College general education requirements may also be used to satisfy the Science Degree requirements.

Learning Outcome(s):

1. Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Required Core Courses:		**Units:**	**9**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	

Required Courses - Astronomy Emphasis		**Units:**	**11**
ASTR 109	Introduction to the Solar System	3	
ASTR 110	Introduction to Stars and Galaxies	3	
–OR–			
ASTR 110H	Honors Introduction to Stars and Galaxies	3	
ASTR 140	Astronomy Laboratory	1	
MATH 185	Single Variable Calculus II	4	
Electives (A, C)		**Units:**	**6**
		Total:	**26**

A – Electives for any emphasis of the Science Degree must be selected from the following courses: Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science or Physics and Mathematics 185, 280.

C. – Completion of Physics 217/227/237 and /or Mathematics 280 highly recommended.

Biology Emphasis Degree: AS

Program code: SAC.SCI.AS

Program Control Number: 04264

The associate degree in science is designed to provide students with a foundation in science that will allow transfer to a four-year college or university to complete a baccalaureate science degree in disciplines such as astronomy, biology, biochemistry, chemistry, geology, geophysics, meteorology, oceanography, or physics. For transfer with upper division standing, most four-year institutions require a minimum of one year of calculus and one year of general chemistry in addition to the courses required in the science major. Check with the Santiago Canyon College/Santa Ana College Transfer Center or counselor for specific transfer requirements. Units used to satisfy the Santiago Canyon College/Santa Ana College general education requirements may also be used to satisfy the Science Degree requirements.

Learning Outcome(s):

1. Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Required Core Courses:		**Units:**	**9**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
Science Core Required Courses (D)		**Units:**	**10**
BIOL 211	Cellular and Molecular Biology	5	
BIOL 212	Animal Diversity and Ecology	5	
–OR–			
BIOL 214	Plant Diversity and Evolution	5	
Electives (A, D, E)		**Units:**	**8**
		Total:	**27**

A – Electives for any emphasis of the Science Degree must be selected from the following courses: Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science, or Physics and Mathematics 185, 280.

D – Biology Emphasis Students may substitute Mathematics 150 for Mathematics 180/180H.

E – Chemistry 229 and Biology 211 and 212 or 214 highly recommended for Biology Emphasis students.

Chemistry Emphasis Degree: AS

Program code: SAC.SCI.AS

Program Control Number: 04264

The associate degree in science is designed to provide students with a foundation in science that will allow transfer to a four-year college or university to complete a baccalaureate science degree in disciplines such as astronomy, biology, biochemistry, chemistry, geology, geophysics, meteorology, oceanography, or physics. For transfer with upper division standing, most four-year institutions require a minimum of one year of calculus and one year of general chemistry in addition to the courses required in the science major. Check with the Santiago Canyon College/Santa Ana College Transfer Center or counselor for specific transfer requirements. Units used to satisfy the Santiago Canyon College/Santa Ana College general education requirements may also be used to satisfy the Science Degree requirements.

Learning Outcome(s):

1. Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Required Core Courses:		**Units:**	**18**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
CHEM 229	General Chemistry and Qualitative Analysis	5	
MATH 185	Single Variable Calculus II	4	
Electives (A, F)		**Units**	**8**
		Total:	**26**

A – Electives for any emphasis of the Science Degree must be selected from the following courses: Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science, or Physics and Mathematics 185, 280.

F – Completion of Chemistry 259 or Chemistry 249 and Math 185 highly recommended for Chemistry Emphasis Students.

General Science Emphasis Degree: AS

Program code: SAC.SCI.AS

Program Control Number: 04264

The associate degree in science is designed to provide students with a foundation in science that will allow transfer to a four-year college or university to complete a baccalaureate science degree in disciplines such as astronomy, biology, biochemistry, chemistry, geology, geophysics, meteorology, oceanography, or physics.

For transfer with upper division standing, most four-year institutions require a minimum of one year of calculus and one year of general chemistry in addition to the courses required in the science major. Check with the Santiago Canyon College/Santa Ana College Transfer Center or counselor for specific transfer requirements.

Units used to satisfy the Santiago Canyon College/Santa Ana College general education requirements may also be used to satisfy the Science Degree requirements.

Learning Outcome(s):

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

1. Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Required Core Courses:		**Units:**	**13**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
MATH 185 A	Single Variable Calculus II	4	
Electives (A)		**Units:**	**13**
		Total:	**26**

A – Electives for any emphasis of the Science Degree must be selected from the following courses: Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science or Physics and Mathematics 185, 280.

Geology Emphasis Degree: AS

Program code: SAC.SCI.AS

Program Control Number: 04264

The associate degree in science is designed to provide students with a foundation in science that will allow transfer to a four-year college or university to complete a baccalaureate science degree in disciplines such as astronomy, biology, biochemistry, chemistry, geology, geophysics, meteorology, oceanography, or physics. For transfer with upper division standing, most four-year institutions require a minimum of one year of calculus and one year of general chemistry in addition to the courses required in the science major. Check with the Santiago Canyon College/Santa Ana College Transfer Center or counselor for specific transfer requirements. Units used to satisfy the Santiago Canyon College/Santa Ana College general education requirements may also be used to satisfy the Science Degree requirements.

Learning Outcome(s):

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

1. Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Required Core Courses:		**Units:**	**9**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
Required Courses - Geology Emphasis		**Units:**	**8**
GEOL 101	Introduction to Geology	3	
GEOL 101L	Introduction to Geology Laboratory	1	
GEOL 201	Introduction to Historical Geology	4	
Electives (A, G)		**Units:**	**9**
		Total:	**26**

A – Electives for any emphasis of the Science Degree must be selected from the following courses: Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science, or Physics and Mathematics 185, 280.

G – Completion of Chemistry 229 and Mathematics 185 highly recommended for Geology Emphasis Students.

Physics Emphasis Degree: AS

Program code: SAC.SCI.AS

Program Control Number: 04264

The associate degree in science is designed to provide students with a foundation in science that will allow transfer to a four-year college or university to complete a baccalaureate science degree in disciplines such as astronomy, biology, biochemistry, chemistry, geology, geophysics, meteorology, oceanography, or physics. For transfer with upper division standing, most four-year institutions require a minimum of one year of calculus and one year of general chemistry in addition to the courses required in the science major. Check with the Santiago Canyon College/Santa Ana College Transfer Center or counselor for specific transfer requirements. Units used to satisfy the Santiago Canyon College/Santa Ana College general education requirements may also be used to satisfy the Science Degree requirements.

Learning Outcome(s):

1. Students will understand the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.

Required Core Courses:		**Units:**	**9**
MATH 180	Single Variable Calculus I	4	
–OR–			
MATH 180H	Honors Single Variable Calculus I	4	
CHEM 219	General Chemistry	5	
–OR–			
CHEM 219H	Honors General Chemistry	5	
Required Courses - Physics Emphasis		**Units:**	**12**
PHYS 217	Engineering Physics I	4	
PHYS 227	Engineering Physics II	4	
–OR–			
PHYS 237	Engineering Physics III	4	
MATH 185	Single Variable Calculus II	4	
Electives (A, C)		**Units**	**5**
		Total:	**26**

A – Electives for any emphasis of the Science Degree must be selected from the following courses: Any course numbered 100 or higher in Astronomy, Biology, Chemistry, Earth Science, Environmental Studies, Geology, Physical Science or Physics and Mathematics 185, 280.

C – Completion of PHYS 217/227/237 and/or MATH 280 highly recommended.

SOCIAL SCIENCE

Social Science Degree: AA

Program code: SAC.SOCS.AA

Program Control Number: 4252

The associate degree curriculum in social science is designed to provide the student with a better understanding of human behavior, past and present, the historical and social environmental forces that operate in the world, and the significant problems of the present day. Completion of the degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree. Employment opportunities are available in the teaching of social science

Learning Outcome(s):

1. Students will evaluate how individuals, societies, and social subgroups operate.

Required Core Courses:		**Units:**	**24**
HIST 101	World Civilizations to the 16th Century	3	
–OR–			
HIST 101H	Honors World Civilizations to the 16th Century	3	
HIST 102	World Civilizations Since the 16th Century	3	
–OR–			
HIST 102H	Honors World Civilizations Since the 16th Century	3	
HIST 120	The United States to 1865	3	
–OR–			
HIST 120H	Honors The United States to 1865	3	
HIST 121	The United States since 1865	3	
–OR–			
HIST 121H	Honors The United States since 1865	3	
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
SOC 100	Introduction to Sociology	3	
–OR–			
SOC 100H	Honors Introduction to Sociology	3	
ECON 120	Principles/Macro		
POLT 101	Introduction to American Governments	3	
–OR–			
POLT 101H	Honors Introduction to American Governments	3	
Select a minimum of 6 units from the recommended electives below		**Units:**	**6**
ANTH 101	Introduction to Physical Anthropology	3	
ANTH 103	Introduction to Archaeology	3	
ANTH 125	Native Americans in the U.S.	3	
CMPR 100	The Computer and Society	3	
GEOG 100	World Regional Geography	3	
–OR–			
GEOG 100H	Honors World Regional Geography	3	
HIST 125	Native Americans in the U.S.	3	
HIST 127	Women in U.S. History	3	
HIST 181	Survey of Chicana/Latina Women's History	3	
POLT 200	American Political Thought	3	
–OR–			
POLT 200H	Honors American Political Thought	3	
POLT 201	Introduction to Comparative Politics	3	
POLT 220	International Politics	3	
		Total:	**30**

SOCIOLOGY

Sociology Degree: AA

Program code: SAC.SOC.AA

Program Control Number: 04260

The associate degree curriculum in sociology is an interdisciplinary social science program providing students an understanding of interpersonal behavior and social structure, a critical appreciation of contemporary social life, and a frame of reference for an analysis of human behavior. Completion of the associate of arts degree prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree.

Learning Outcome(s):

1. Students will identify, contrast and apply the methods and theoretical perspectives in sociology utilized to explain social interaction and social structure, including the analysis of social problems.

Required Core Courses:		**Units:**	**12**
ANTH 100	Introduction to Cultural Anthropology	3	
–OR–			
ANTH 100H	Honors Introduction to Cultural Anthropology	3	
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
SOC 100	Introduction to Sociology	3	
–OR–			
SOC 100H	Honors Introduction to Sociology	3	
SOC 140	Social Problems	3	
–OR–			
SOC 140H	Honors Analysis of Social Trends and Problems	3	
Selected Electives: Select TWO courses from the following:			
ANTH 101	Introduction to Physical Anthropology	3	
ANTH 104	Language and Culture	3	
–OR–			
ANTH 104H	Honors Language and Culture	3	
–OR–			
ENGL 104	Language and Culture	3	
-OR-			
ENGL 104H	Honors Language and Culture	3	
ANTH 105	Ancient Mesoamerican Civilization	3	
-OR-			
HIST 105	Ancient Mesoamerican Civilization	3	
ANTH 125	Native Americans in the U.S.	3	
MATH 219	Statistics and Probability	4	
–OR–			
MATH 219	Statistics and Probability	4	
-OR-			
MATH 219H	Honors Statistics and Probability	4	
PSYC 140	Introduction to Psychology of Adulthood and Aging	3	
PSYC 157	Introduction to Child Psychology	3	
PSYC 240	Introduction to Social Psychology	3	
SOC 112	Relationships, Marriages, and Family Dynamics	3	
		Total:	**18-21**

Sociology Degree for Transfer: AA-T

Program code: SAC.SOC.AAT

Program Control Number: 30640

The Associate in Arts in Sociology for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in sociology. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the AA-T degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to the local CSU campus, in one of seven different Sociology majors. **See page 29** **for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Upon completion of this degree, students will accurately apply key sociological concepts when assessing their own and other societies; and distinguishing between personal/group opinions and scientific conclusions when analyzing and evaluating social issues. Students will be able to clearly communicate historical, social and cultural awareness in oral and written assignments, including an awareness of the variety and relative severity of social issues impacting people differently due to their particular place within the social structure.

Learning Outcome(s):

1. Students will identify, contrast and apply the methods and theoretical perspectives in sociology utilized to explain social interaction and social structure, including the analysis of social problems.

Required Core Courses (includes List A) (10 units)		**Units**
SOC 100	Introduction to Sociology	3
– or –		
SOC 100H	Honors Introduction to Sociology	3
List A – two courses		**Units**
SOC 140	Analysis of Social Trends and Problems	3
– OR –		
SOC 140H	Honors Analysis of Social Trends and Problems	3
MATH 219	Statistics and Probability	4
– OR –		
MATH 219H	Honors Statistics and Probability	4
– OR –		
SOCS 219	Statistics and Probability	4
– OR –		
SOCS 219H	Honors Statistics and Probability	4
List B – two courses (6 units)		**Units**
Any List A course not used above		
SOC 112	Relationships, Marriages, and Family Dynamics	3
SOC 240	Introduction to Social Psychology	3
– OR –		
PSYC 240	Introduction to Social Psychology	3
List C – select one course (3-4 units)		**Units**
Any course not selected above		
ANTH 100	Introduction to Cultural Anthropology	3
– OR –		
ANTH 100H	Honors Introduction to Cultural Anthropology	3
ENGL 101H	Honors Freshman Composition	4
ENGL 102	Literature and Composition	4
ENGL 103	Critical Thinking and Writing	4
– OR –		
ENGL 103H	Honors Critical Thinking and Writing	4
GEOG 102	Cultural Geography	3
PHIL 110	Critical Thinking	4
– OR –		
PHIL 110H	Honors Critical Thinking	4
PSYC 100	Introduction to Psychology	3
– OR –		
PSYC 100H	Honors Introduction to Psychology	3
– OR –		
Another introductory course in the social sciences chosen from:		
ASIA 101	Introduction to Asian American Studies	3
BIOL 200	Environment of Man	3
BLST 101	Introduction to African American Studies	3
CHST 101	Introduction to Chicana/o Studies	3
CDEV 107	Child Growth and Development (DS1)	3
CJ 101	Introduction to Criminal Justice	3
CMSD 105	Mass Media and Society	3
– OR –		
CMSD 105H	Honors Mass Media and Society	3
CNSL 150	Introduction to Human Services	3
ECON 120	Principles/Macro	3
ECON 121	Principles/Micro	3
ENVR 200	Environment of Man	3
ETHN 101	Introduction to Ethnic Studies	3
– OR –		
ETHN 101H	Honors Introduction to Ethnic Studies	3
GEOG 100	World Regional Geography	3
– OR –		
GEOG 100H	Honors World Regional Geography	3
HIST 118	Social and Cultural History of the United States	3
HIST 120	The United States to 1865	3
– OR –		
HIST 120H	Honors The United States to 1865	3
HIST 121	The United States since 1865	3
– OR –		
HIST 121H	Honors The United States since 1865	3
HIST 122	American History-Dynamics of Change	3
HIST 123	African American History to 1865	3
HIST 124	Mexican American History in the United States	3
– OR –		
HIST 124H	Honors Mexican American History in the United States	3
HIST 127	Women in U.S. History	3
HIST 146	African American History from 1863 to the Present	3
POLT 101	American Government and Politics	3
– OR –		
POLT 101H	Honors American Government and Politics	3
PSYC 157	Introduction to Child Psychology	3
SCI 200	Environment of Man	3
WMNS 101	Introduction to Women's Studies	3
	Total Units	**19-20**

SPEECH-LANGUAGE PATHOLOGY ASSISTANT

Speech-Language Pathology Assistant Degree: AS

Program code: SAC.SLPA.AS

Program Control Number: 12242

The Speech-Language Pathology Assistant Program is designed to prepare students for employment assisting speech-language pathologists working with communicatively disordered children and adults. Students will be trained to administer treatment as prescribed by the speech- language pathologist, conduct screenings for speech-language and hearing disorders, and to provide general support assistance to the speech-language pathologist. The Associate of Science program offers an intensive course of study in the area of speech and language disorders, including supervised treatment and field experience in a variety of settings such as educational, clinical, and/ or medical.

Further, there is a high probability that students will be required to complete immunizations, fingerprinting and/or have a drug test and criminal background check (at the student's expense). Problems with fingerprinting and background checks could result in a delay of placement or failure of program completion.

Upon completion of the A.S. Degree program, the graduate is eligible for registration as a Speech- Language Pathology Assistant by the Department of Consumer Affairs, Speech-Language Pathology & Audiology & Hearing Aid Dispensers Board. Prior to obtaining employment, students who have completed all A.S. degree requirements will need to apply for registration to practice in the State of California through the Department of Consumer Affairs, Speech-Language Pathology & Audiology & Hearing Aid Dispensers Board, 2005 Evergreen Street, Suite 2100, Sacramento, CA 95815, phone number 916-263-2666. When applying for registration with the California board, applicants will be asked to answer questions regarding prior felony arrests and convictions. In addition, applicants must submit fingerprints for a Department of Justice and Federal Bureau of Investigation background check, to be done at the applicant's expense, and possess a valid social security number. For information about limitations based on criminal history, applicants are advised to call the Board directly any time prior to the application process. Registration application and complete information on necessary documents can be obtained through the Department of Consumer Affairs, Speech-Language Pathology & Audiology & Hearing Aid Dispensers Board website at www.speechandhearing.ca.gov.

Major requirements for the associate degree:

All A.S. degree requirements must be completed with a grade of C or better at the conclusion of the program.

Learning Outcome(s):

1. Students will be prepared for employment as Speech-Language Pathology Assistants.
2. Students will meet the State of California registration requirements for Speech-Language Pathology Assistant.

Required Core Courses:		**Units:**	**38.5**
SLPA 118	Introduction to Speech-Language Pathology Assisting	1	
SLPA 119	Speech-Language and Hearing Development Across the Life Span	3	
CMST 151	Voice and Diction for Effective Communication	3	
CDEV 107	Child Growth and Development (DS1)	3	
–OR–			
PSYC 157	Introduction to Child Psychology	3	
CDEV 108	Observation and Assessment for Early Learning and Development (DS3)	3	
SLPA 120	Speech-Language Pathology Clinical Management and Procedures	2	
SLPA 150	Observation of Speech-Language Pathology Clinical Practices	0.5	
SLPA 160	Introduction to Communicative Disorders and Treatment	3	
SLPA 170	Introduction to Phonetics	3	
SLPA 180	Speech-Language Pathology Screening Processes and Intervention Procedures	3	
SLPA 190	Speech-Language Pathology Assistant Clinical Fieldwork I	2	
SLPA 200	Adult and Geriatric Communication Disorders	3	
CDEV 205	Introduction to Children with Special Needs	3	
SLPA 250	Speech-Language Pathology Assistant Clinical Fieldwork II	2	
ASL 110	American Sign Language I	4	
General Education Requirements:		**Units:**	**23**
BIOL 109	Fundamentals of Biology	3	
–OR–			
BIOL 109H	Honors Fundamentals of Biology	3	
–AND–			
BIOL 109L	Fundamentals of Biology Laboratory	1	
–OR–			
BIOL 149	Human Anatomy and Physiology	4	
–OR–			
BIOL 239	General Human Anatomy	4	
ENGL 101	Freshman Composition	4	
–OR–			
ENGL 101H	Honors Freshman Composition	4	
PSYC 100	Introduction to Psychology	3	
–OR–			
PSYC 100H	Honors Introduction to Psychology	3	
CMST 101	Introduction to Interpersonal Communication	3	
–OR–			
CMST 101H	Honors Introduction to Interpersonal Communication	3	
CMST 103	Introduction to Intercultural Communication	3	
–OR–			
CMST 103H	Honors Introduction to Intercultural Communication	3	
ANTH 104	Language and Culture	3	
–OR–			
ANTH 104H	Honors Language and Culture	3	
ENGL 104	Language and Culture	3	
–OR–			
ENGL 104H	Honors Language and Culture	3	
PSYC 140	Introduction to Psychology of Adulthood and Aging	3	
		Total:	**61.5**

TV/VIDEO COMMUNICATIONS

Film, TV and Electronic Media Degree for Transfer: AS-T

Program code: SAC.FTEM.AST

Program Control Number: 35698

The Associate in Science in Film, Television and Electronic Media for Transfer (AS-T in Film, Television and Electronic Media) is designed to prepare students for transfer into the CSU system to complete a baccalaureate degree in Film, Television and Electronic Media, as well as to prepare them for work in those industries. Please consult a counselor regarding specific course requirements for your transfer institution. Completion of the Associate in Science in Film, Television and Electronic Media for Transfer (AS-T in Film, Television and Electronic Media) also provides guaranteed admission with junior status to the CSU system, along with priority admission to a local CSU in a similar major. **See page 29 for a list of additional requirements for all Associate of Arts for Transfer (AA-T) and Associate of Science for Transfer (AS-T) degrees.** Upon completion of the AS-T in Film, Television and Electronic Media, students will have an understanding of the various aspects associated with the production and post production of films, television and electronic media. Students will also possess the knowledge and technical skills required for academic and professional success in related areas.

Learning Outcome(s):

1. Students will have an understanding of the various aspects associated with the production and post production of films, television and electronic media. Students will also possess the knowledge and technical skills required for academic and professional success in related areas.

Required Core Courses: Select two: 6 units		**Units:**
TELV 100	Introduction to Electronic Media: TV, Radio, Film, and the Internet	3
–OR–		
CMSD 105	Mass Media and Society	3
–OR–		
CMSD 105H	Honors Mass Media and Society	3
–AND–		
TELV 120	Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3
List A: Select one from each area 1: 3 units		
TELV 152	Beginning Audio Production	3
–OR–		
MUS 152	Beginning Audio Production	3
Area 2: 3 units		
TELV 115A	Single-Camera Production and Editing	3
List B: Select one course: 3-4 units		
TELV 110	Introduction to Television Production	3
–OR–		
ART 100	Introduction to Art Concepts	3
–OR–		
ART 100H	Honors Introduction to Art Concepts	3
–OR–		
ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century	3
THEA 100	Introduction to Theatre	3
ENGL 102	Literature and Composition	4
–OR–		
ENGL 102H	Honors Literature and Composition	4
–OR–		
ENGL 103	Critical Thinking and Writing	4
–OR–		
ENGL 103H	Honors Critical Thinking and Writing	4
–OR–		
PHIL 110	Critical Thinking	4
–OR–		
PHIL 110H	Honors Critical Thinking	4
List C: Select one course: 3 units		
TELV 101	TV and Society: A Visual History	3
–OR–		
TELV 103	History of Film to 1945	3
–OR–		
TELV 104	History of Film from 1945 to Present	3
–OR–		
TELV 112	Introduction to Video Editing and Postproduction	3
–OR–		
TELV 115B	Advanced Single-Camera Production and Editing	3
–OR–		
TELV 121	Intermediate Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media	3
–OR–		
TELV 123	Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media	3
–OR–		
TELV 150	Producing and Directing for Television	3
–OR–		
TELV 215	Advanced Single-Camera/Digital Cinema Production	3
–OR–		
TELV 298	TV/Video Communications Practicum/ Internship	3
		Total: 15-19

Media Studies: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.TVMS.CERT

Learning Outcome(s):

1. Students will demonstrate basic knowledge and operational skills associated with various technologies and equipment utilized in the production and post production of professional video programs.
2. Students will acquire sufficient knowledge and understanding of the various aspects and crew positions associated with producing professional television programs, so as to be able to effectively assess the technical and personnel requirements for a production, coordinate the necessary resources and successfully execute the plan as either an individual or a member of a production team.
3. Students will demonstrate critical thinking by reviewing and critiquing past and current movies and TV shows to assess their strengths and weakness from the point of view of the media consumer.

Required Core Courses:		Units:	
CMSD 105	Mass Media and Society	3	
–OR–			
CMSD 105H	Honors Mass Media and Society	3	
TELV 100	Introduction to Electronic Media: TV, Radio, Film, and the Internet	3	
TELV 101	TV and Society: A Visual History	3	
TELV 103	History of Film to 1945	3	
–OR–			
THEA 103	History of Film to 1945	3	
–OR–			
TELV 104	History of Film from 1945 to Present	3	
–OR–			
THEA 104	History of Film from 1945 to Present 3	3	
TELV 120	Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3	
		Total:	**15**

THEATRE ARTS

Performance Emphasis Degree: AA

Program code: SAC.TAPER.AA

Program Control Number: 04220

The Theatre Arts Performance degree provides a fundamental exploration of Theatre Arts focusing on performance styles and acting techniques. It is designed to prepare the student for entry level performance careers in stage, television, and film, as well as other occupations where voice training, dynamic presentations, and adaptability in interactive style are important. This degree provides a more flexible and diverse study plan in comparison to the associate of arts degree for transfer. Please consult a SAC counselor for information about course requirements for particular four-year institutions.

Learning Outcome(s):

1. Gain practical experience in performing dynamic characters in the presentation of public performances of live stage productions.
2. Recognize the interaction between script, actor and audience and the areas of scenery, lighting, sound and costume.
3. Demonstrate knowledge of the historical and cultural dimensions of theatre, including the works of leading playwrights, actors, directors and designers, past and present.

Required Core Courses:		Units:	12
THEA 100	Introduction to Theatre	3	
THEA 105	Theatre History 1	3	
THEA 110	Acting Fundamentals	3	
THEA 120	Musical Theatre History	3	
Plus an additional 9 units from the following courses:		**Units:**	**9**
THEA 111	Intermediate Acting	3	
THEA 113	Acting for the Camera	3	
THEA 114	Acting for the Camera II	3	
THEA 118	Fundamentals of Scene Study	2	
THEA 131	Stagecraft	3	
THEA 132	Stage Makeup	3	
THEA 135	Technical Production	1	
THEA 140A	Theatre Performance	2	
THEA 150A	Rehearsal and Performance in Production	2	
THEA 150B	Technical Theatre in Production	2	
THEA 151	Showcase I	3	
THEA 152	Tour Ensemble	3	
THEA 153	Introduction to Directing	2	
THEA 154	Performance Ensemble	2	
THEA 155	Children's Theatre Ensemble	2	
THEA 169	Cooperative Work Experience-Entertainment	1-4	
THEA 177	Principles of Playwrighting	3	
THEA 186	Voice for the Actor	3	
THEA 198	Topics	0.5	
THEA 255	Motion Picture Performance Production	3	
		Total:	**21**

Technical Theatre Emphasis Degree: AA

Program code: SAC.TATEC.AA

Program Control Number: 04221

The Technical Theatre degree provides a fundamental exploration of Theatre Arts focusing on the technical elements that support performers and enhance performances. It is designed to prepare the student for entry level technical careers such as stage technician, lighting technician, sound technician, master electrician, scenic carpenter, stage manager, and other related careers. This degree provides a more flexible and diverse study plan in comparison to the associate of arts degree for transfer. Please consult a SAC counselor for information about course requirements for particular four-year institutions.

Learning Outcome(s):

1. Participate in the creation and presentation of public performances of theatre to gain practical experience using the entertainment technologies appropriate for live stage performances.
2. Demonstrate competency in core practical skills as used in the technical theatre industry.
3. Experience the interaction between script and the areas of stage management, scenery, lighting, sound and costume.

Required Core Courses:		Units:	12
THEA 100	Introduction to Theatre	3	
THEA 105	Theatre History 1	3	
THEA 120	Musical Theatre History	3	
THEA 131	Stagecraft	3	
Plus an additional 9 units from the following courses:		**Units:**	**9**
THEA 110	Acting Fundamentals	3	
THEA 132	Stage Makeup	3	
THEA 133	Lighting Fundamentals	3	
THEA 135	Technical Production	1	
THEA 150B	Technical Theatre in Production	2	
THEA 155	Children's Theatre Ensemble	2	
THEA 165	Introduction to Intelligent Lighting	1.5	
THEA 165L	Fundamentals of Programming for ntelligent Lighting Lab	0.5	
THEA 166	Intermediate Programming	1	
THEA 166L	Intermediate Programming Lab	1	
THEA 167	Setup for Intelligent Lighting	1	
THEA 168A	Computer Applications for Entertainment Lighting	2.5	
THEA 169	Cooperative Work Experience-Entertainment	1-4	
MUS 152	Beginning Audio Production	3	
		Total:	**21**

Theatre Arts for Transfer Degree: AA-T

Program code: SAC.TAPER.AAT

Program Control Number: 31137

The Associate in Arts in Theatre Arts for Transfer (AA-T) prepares students to move into a curriculum at a four-year institution leading to a baccalaureate degree in theatre arts which can lead to careers in teaching, design, technical theatre, theatre management, professional performance, stage direction, stage management, and related areas. Please consult a counselor regarding specific course requirements for your transfer institution. **See page 29 for a list of additional requirements for all Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees.** Completion of the AA-T degree also provides guaranteed admission to the CSU system, although not to a particular campus or major. Upon completion of the AA-T in Theatre Arts, students will understand and be able to demonstrate the fundamental performance and technical production processes for Theatre Arts, demonstrate knowledge of the historical and cultural dimensions of theatre, and understand the interaction between script, actor, and audience and the areas of scenery, lighting, sound, and costume.

Learning Outcome(s):

1. Pass the interview/audition process in the areas of performance or technical theatre and be placed at the junior level upon transfer to California State University Fullerton, California State University Long Beach, and other four-year institutions.
2. Participate in the creation and presentation of public performances of theatre to gain an understanding of the processes and collaborative nature of the art.
3. Develop an understanding of the interaction between script, actor and audience and the areas of scenery, lighting, sound and costume.

Required Core Courses:		**Units:**	**6**
THEA 100	Introduction to Theatre	3	
–OR–			
THEA 105	Theatre History 1	3	
THEA 110	Acting Fundamentals	3	
Performance Emphasis Core-Take: THEA 150A and THEA 151 Technical			
Emphasis Core-Take: THEA 135 and THEA 150B		**Units:**	**3-5**
THEA 135	Technical Production	1	
THEA 150A	Rehearsal and Performance in Production	2	
THEA 150B	Technical Theatre in Production	2	
THEA 151	Showcase I	3	
Plus 9 units from the following electives:		**Units:**	**9-10**
THEA 111	Intermediate Acting	3	
THEA 131	Stagecraft	3	
THEA 132	Stage Makeup	3	
THEA 136	Fundamentals of Costume Design	3	
–OR–			
FDM 136	Fundamentals of Costume Design	3	
THEA 133	Lighting Fundamentals	3	
THEA 152	Tour Ensemble	3	
THEA 154	Performance Ensemble	2	
THEA 155	Children's Theatre Ensemble	2	
		Total:	**18-21**

Entertainment Technology: Certificate of Achievement

(Transcripted)

Program code: SAC.TAET.CA

Program Control Number: 16538

The Entertainment Technology program provides hands-on training with a focus on emerging entertainment technologies. The program focuses on the study of industry practices, including contemporary computer applications used for entertainment design disciplines, visualization, virtualization, project management, and support documentation. Students will become proficient in the utilization of entertainment technologies commonly used in concerts, dance performances, television, theatre, theme parks, sports arenas, houses of worship, industrial settings, and digital cinema. Fundamental skills will be developed that are necessary to assist students in pursuing career paths such as: Entertainment Lighting Technician, Moving Light Programmer, Console Operator, Moving Light Technician, Master Electrician, Assistant Lighting Designer and Director, Costume Technician, Assistant Costume Designer, Special Effects Makeup Technician, Makeup Technician, Audio Technician, Digital Content Creator, and Projections Technician.

Learning Outcome(s):

1. Demonstrate competency in basic skills required to pursue an entry level career path as an Entertainment Lighting Technician, Conventional and Moving Light Programmer, Master Electrician, Assistant Lighting Designer, or Entertainment Audio Technician.
2. Participate in the creation and presentation of public performances of theatre and dance to gain practical experience using the entertainment technologies appropriate for stage performances.

Required Core Courses:		**Units:**	**7-10**
THEA 100	Introduction to Theatre	3	
THEA 131	Stagecraft	3	
THEA 169	Cooperative Work Experience-Entertainment	1-4	
Plus a minimum of 10 to 11.5 units from the following electives:			
THEA 130	Lighting Design	2	
THEA 132	Stage Makeup	3	
THEA 133	Lighting Fundamentals	3	
THEA 135	Technical Production	1	
MUS 152	Beginning Audio Production	3	
THEA 165	Introduction to Entertainment Lighting	1.5	
THEA 165L	Fundamentals of Programming for Intelligent Lighting Lab	0.5	
THEA 166	Intermediate Programming	1	
THEA 166L	Intermediate Programming Lab	1	
THEA 167	Setup for Intelligent Lighting	1	
THEA 168A	Computer Applications for Entertainment Technology	2.5	
		Total:	**17-18.5**

Screen Performance: Certificate of Achievement *(Transcripted)*

Program code: SAC.TASP.CA

Program Control Number: 38160

This certificate program is designed for those who want to pursue an acting career in film, television, commercials, and digital media. Students hone their performance, auditioning, and improvisation skills and have ample opportunity to perform in front of the camera and learn the practical business skills needed to succeed in the industry.

Learning Outcome(s):

1. Gain practical experience in performing dynamic on-screen characters in various styles of television and cinema production.
2. Demonstrate an understanding of the artistic processes involved in acting for the camera.

Required Core Courses:		**Units:**	**15**
THEA 111	Intermediate Acting	3	
THEA 113	Acting for the Camera	3	
THEA 114	Acting for the Camera II	3	
THEA 190	Improvisation for Stage and Screen	3	
THEA 255	Motion Picture Performance Production	3	
Plus 4-6 units from the following electives:		**Units:**	**4-6**
THEA 118	Fundamentals of Scene Study	2	
THEA 153	Introduction to Directing	2	
TELV 112	Introduction to Video Editing and Postproduction	3	
TELV 115A	Single-Camera Production and Editing	3	
TELV 120	Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media	3	
TELV 140	Cinematography	3	
		Total:	**19-21**

Costume Design: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.TACD.CERT

Learning Outcome(s):

1. Demonstrate an understanding of the relationship between costumes, the script, and the actor.
2. Develop an understanding of the responsibilities and the art of the costume designer as it relates to characterization for a specific script.
3. Develop the fundamental skills to visualize, pattern, construct, and fit performers with custom costumes.

Required Core Courses:		**Units:**	**17.5**
FDM 105A	Beginning Sewing	3	
FDM 111A	Fashion Illustration Techniques	3	
FDM 113	Fashion Draping	3.5	
FDM 136	Fundamentals of Costume Design	3	
–OR–			
THEA 136	Fundamentals of Costume Design	3	
THEA 132	Stage Makeup	3	
THEA 150	Theatre Production	2	
		Total:	**17.5**

WELDING TECHNOLOGY

Welding Technology Degree: AS

Program code: SAC.WELD.AS

Program Control Number: 04214

In addition to the general education requirements, the associate degree and certificate curriculum in welding technology is designed to provide comprehensive occupational training in all common types of welding methods relating to the needs of today's welding fabrication industry. The program provides students with the practical skills and technical knowledge required to operate Oxy-Fuel cutting equipment, Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), and Gas Metal Arc Welding (GMAW). In addition, students will be prepared for certification as required by employment in the welding industry. Employment opportunities available are Welder, Welder Technician, Inspector, Maintenance Welder, Pipe Welder, and Shipbuilder. The Santa Ana College Welding Program is a Los Angeles Certified Testing Lab Facility. The program offers training and testing for the following certifications: SMAW, FCAW, GTAW, and GMAW.

Learning Outcome(s):

1. Demonstrate advanced knowledge in welding processes that apply to the welding industry.
2. Apply welding theory to ensure proper application of welding practices.
3. Identify welding blueprints and symbols.

Required Core Courses:		**Units:**	**26**
WELD 101	Introduction to Welding	3	
WELD 125	Intermediate Electric Arc Welding	3	
WELD 225	Advanced Electric Arc Welding	3	
WELD 240	Structural Welding SMAW/FCAW	3	
WELD 153	Math/Blueprint Reading for Welders	3	
WELD 177	Welding Metallurgy	3	
–OR–			
MNFG 128	Basic Metals Technology	3	
WELD 232	Advanced Gas Tungsten Arc Welding	3	
WELD 181	Pipe Welding Fundamentals	3	
WELD 244	Welding Certification D1.1 Code Clinic 2	2	
		Total:	**26**

Automated Robotic Welding Systems: Certificate of Achievement *(Transcripted)*

Program code: SAC.WELAR.CA

Program Control Number: 33958

The certificate curriculum in welding technology is designed to provide advanced occupational training in Automated Robotic Welding. The program provides students with training in set up, programming and operation in automated systems. These classes are designed to meet both current and future needs in the robotic welding industry. The program provides the students the knowledge in the Gas Metal Arc Welding process. In addition, students will be prepared for certification as required by employment in the robotic welding industry. Employment opportunities available are welder, robotic welder technician, inspector, production welder in manufacturing and shipbuilding. The Santa Ana College Welding Program is a Los Angeles Certified Testing Lab Facility. The program offers training and testing for the following certifications: SMAW, FCAW, TIG, MIG and Pipe.

Learning Outcome(s):

1. Apply proper industry safety standards
2. Apply proper industry safety standards
3. Create robotic welding programs

Required Core Courses:		Units:
WELD 156A	Beginning Robotic Welding	3
–OR–		
MNFG 156A	Beginning Robotic Welding	3
WELD 156B	Intermediate Robotic Welding	3
–OR–		
MNFG 156B	Intermediate Robotic Welding	3
WELD 156C	Advanced Robotic Welding	3
–OR–		
MNFG 156C	Advanced Robotic Welding	3
WELD 157A	Basic Robotic Programming	3
–OR–		
MNFG 157A	Basic Robotic Programming	3
WELD 157B	Intermediate Robotic Programming	3
–OR–		
MNFG 157B	Intermediate Robotic Programming	3
WELD 157C	Advanced Robotic Programming Welding	3
–OR–		
MNFG 157C	Advanced Robotic Programming Welding	3
	Total:	**18**

Structural Steel: Certificate of Achievement *(Transcripted)*

Program code: SAC.ADVWELD.CA

Program Control Number: 32538

The certificate curriculum in welding technology is designed to provide comprehensive occupational training in structural steel certification, relating to the needs of today's welding fabrication and construction industry. The program provides students with the practical skills and technical knowledge required to operate Oxy-Fuel cutting equipment, Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), and Gas Metal Arc Welding (GMAW). In addition, students will be prepared for certification as required by employment in the welding industry. Employment opportunities available are Welder, Welder Technician, Inspector, Maintenance Welder, Pipe Welder, and Shipbuilder. The Santa Ana College Welding Program is a Los Angeles Certified Testing Lab Facility. The program offers training and testing for the following certifications: SMAW, FCAW, GTAW, and GMAW.

Learning Outcome(s):

1. Create structural fillet and groove welds.
2. Identify common electrodes used in electric arc welding.
3. Demonstrate correct machine setup for the major processes used in electric arc welding.

Required Core Courses:		Units:
WELD 101	Introduction to Welding	3
WELD 125	Intermediate Electric Arc Welding	3
WELD 225	Advanced Electric Arc Welding	3
WELD 240	Structural Welding SMAW/FCAW	3
	Total:	**12**

Welding Technology: Certificate of Achievement *(Transcripted)*

Program code: SAC.WELD.CA

Program Control Number: 19448

The certificate curriculum in welding technology is designed to provide comprehensive occupational training in all common types of welding methods relating to the needs of today's welding fabrication industry. The program provides students with the practical skills and technical knowledge required to operate Oxy-Fuel cutting equipment, Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), and Gas Metal Arc Welding (GMAW). In addition, students will be prepared for certification as required by employment in the welding industry. Employment opportunities available are Welder, Welder Technician, Inspector, Maintenance Welder, Pipe Welder, and Shipbuilder. The Santa Ana College Welding Program is a Los Angeles Certified Testing Lab Facility. The program offers training and testing for the following certifications: SMAW, FCAW, GTAW, and GMAW.

Learning Outcome(s):

1. Demonstrate knowledge in welding processes that apply to the welding industry.
2. Apply welding theory to ensure proper welding practices.
3. Demonstrate weldments in out of position welds.

Required Core Courses:		Units:
WELD 101	Introduction to Welding	3
WELD 125	Intermediate Electric Arc Welding	3
WELD 225	Advanced Electric Arc Welding	3
WELD 153	Math/Blueprint Reading for Welders	3
WELD 240	Structural Welding SMAW/FCAW	3
WELD 181	Pipe Welding Fundamentals	3
WELD 244	Welding Certification D1.1 Code Clinic	2
	Total:	**20**

Automated Laser Welding System: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.WELAL.CERT

Learning Outcome(s):

1. Demonstrate ability to operate laser welders safely.
2. Produce and analyze welds using the laser process.
3. Record documentation results of weld procedure and qualification tests.

Required Core Courses:		Units:
WELD 160	Introduction to Process Validation and Verification of Laser Welding Process: Level 1	3
WELD 161	Planning Process Validation and Verification of Laser Welding Process: Level 2	3
WELD 162	Executing Process Validation and Verification of Laser Welding Process: Level 3	3
MNFG 120	Introduction to Medical Device Quality	2
MNFG 121	Quality Control for Medical Devices	2
	Total:	**13**

Pipe Welding: Certificate of Proficiency *(Untranscripted)*

Program code: SAC.WELAP.CERT

The certificate curriculum in welding technology is designed to provide advanced occupational training in pipe welding. These classes are designed to meet both current and future needs in the pipe welding industry. The program provides students with the practical skills and technical knowledge required to operate Oxy-Fuel cutting equipment, Shielded Metal Arc Welding (SMAW), and semi-automatic welding processes. Students will be prepared for certification as required by employment in the pipe welding industry. Employment opportunities available are Pipe Welder, Boilermaker, Inspector, and Shipbuilder. The Santa Ana College welding program is a Los Angeles Certified Testing Lab Facility. The program offers training and testing for the following certifications: SMAW, FCAW, GTAW, GMAW for Pipe.

Learning Outcome(s):

1. Recognize electrodes used in pipe welding.
2. Demonstrate sound welds in the various positions of pipe welding.
3. Construct a complete open root pipe weldment in the 6G position.

Required Core Courses:		**Units:**	
WELD 101	Introduction to Welding	3	
WELD 181	Pipe Welding Fundamentals	3	
WELD 182	Intermediate Pipe Welding	3	
WELD 282	Advanced Pipe Welding	3	
		Total:	**12**

WOMEN'S STUDIES

Women's Studies Degree: AA

Program code: SAC.WMNS.AA

Program Control Number: 04253

The associate degree curriculum in women's studies is a liberal arts major which is designed to meet the following needs

1. To help women develop a perspective pertaining to their own self-interest and relate those views to social and cultural factors such as economic necessity, political participation, historical patterns, and ethics;
2. To develop their self-awareness in relation to others;
3. To develop skills of communication and analysis;
4. To prepare for transfer to four-year colleges and schools of professional training;
5. To enrich women's knowledge of their culture and the rapid developments that are taking place within it.

Learning Outcome(s):

1. Students will be able to utilize a feminist theoretical analysis of social interactions and social structures, explaining the formation, maintenance, and change of socio-cultural identities.

Required Core Courses:		**Units:**	
WMNS 101	Introduction to Women's Studies	3	
WMNS 102	Women in America: Work, Family Self	3	
ENGL 278	Survey of Literature by Women	3	
KNHE 102	Women's Health Issues	3	
IDS 155	Human Sexuality	3	
HIST 127	Women in U.S. History	3	
Recommended Electives			
CNSL 116	Career/Life Planning and Personal Exploration	3	
–OR–			
HIST 181	Survey of Chicana/Latina Women's History	3	
–OR–			
PHIL 108	Ethics	3	
–OR–			
PSYC 140	Introduction to Psychology of Adulthood and Aging	3	
–OR–			
SOC 112	Relationships, Marriages, and Family Dynamics	3	
		Total:	**18**

ANNOUNCEMENT OF COURSES

Each course is designated by a number. A descriptive title and the units allowed for the course follow the course number. Courses numbered 100 and above are university parallel courses and are offered for transfer to colleges and universities. **See page 46** Transferability of Courses. Courses numbered 100 and above followed by the letter "H" are university parallel courses for transfer to colleges and universities and are offered as part of the Santa Ana College Honors Program. Students enrolling in these courses must meet the designated prerequisites. Courses numbered less than 100 are not designed for transfer. Since these courses are not ordinarily offered in the universities and four-year colleges, they are not always applicable to the requirements for the bachelor of arts or bachelor of science degrees; however, courses numbered below 100 are applicable to the associate degree unless preceded by the letter "N". Courses numbered less than 100 preceded by the letter "N" are not applicable to the associate degree and do not count toward graduation but do count toward course load.

Required sequences and frequency of course offerings as well as length of time required to obtain a degree or certificate can be found on the college website at

sac.edu/academicaffairs/coursesequences.

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to **assist.org** to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the C-ID website at **c-id.net** for specific information on C-ID course designations. Counselors can always help students interpret this information.

Additional SAC courses were pending C-ID approval at the time of catalog publication. Please consult a counselor for the latest C-ID information.

C-ID	SAC COURSE	
ACCT 110	ACCT 101	Financial Accounting
ACCT 120	ACCT 102	Managerial Accounting
AJ 110	CJ 101 or CJ 101H	Introduction to Criminal Justice or Honors Introduction to Criminal Justice
AJ 120	CJ 103 or CJ 103H	Concepts of Criminal Law or Honors Concepts of Criminal Law
AJ 122	CJ 107 or PARA 107	Principles and Procedures in the Criminal Justice System
AJ 124	CJ 105	Legal Aspects of Evidence
AJ 140	CJ 205	Criminal Investigation Principles
AJ 150	CJ 108	Crime Scene Investigation
AJ 160	CJ 109 or CJ 109H	Community Interaction or Honors Community Interaction
AJ 200	CJ 102	Introduction to Corrections
AJ 220	CJ 220	Juvenile Delinquency and Control
ANTH 110	ANTH 101	Introduction to Physical Anthropology
ANTH 120	ANTH 100 or ANTH 100H	Introduction to Cultural Anthropology or Honors Introduction to Cultural Anthropology
ANTH 130	ENGL 104 or ENGL 104H or ANTH 104H	Language and Culture or Honors Language and Culture
ANTH 150	ANTH 103	Introduction to Archaeology
ARTH 100	ART 100 or ART 100H	Introduction to Art Concepts or Honors Introduction to Art Concepts
ARTH 110	ART 101	Survey of Western Art History I: Prehistory through the Middle Ages
ARTH 120	ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century
ARTH 130	ART 106	Asian Art History
ARTH 140	ART 103	Arts of Africa, Oceania, and Indigenous North America
ARTS 100	ART 110	Two-Dimensional Design
ARTS 101	ART 111	Three-Dimensional Design
ARTS 110	ART 130	Introduction to Drawing
ARTS 200	ART 131	Beginning Life Drawing
ARTS 205	ART 230	Intermediate Drawing
ARTS 250	ART 195	Introduction to Digital Media Arts
BIOL 110B	BIOL 239	General Human Anatomy
BIOL 120B	BIOL 249	Human Physiology
BIOL 130S	BIOL 212 + BIOL 214	Animal Diversity and Ecology + Plant Diversity and Evolution
BIOL 190	BIOL 211	Cellular and Molecular Biology
BIOL 220	BIOL 192	Biotech B: Proteins
BIOT 1101 X	BIOL 170 + BIOL 170L	Introduction to Biotechnology & Introduction to Biotechnology Lab
BIOT 150 X	BIOL 191 + BIOL 193	Biotech A: Basic Skills + Biotech C: Nucleic Acids
BIOT 210 X	BIOL 194	Quality and Regulatory Compliance in Biosciences
BIOT 220 X	BIOL 192	Biotech B: Proteins
BUS 110	BUS 100	Fundamentals of Business
BUS 115	BUS 222	Business Writing
BUS 120	BUS 105 or LAW 105	Legal Environment of Business
BUS 125	BUS 101	Business Law
BUS 140	BUS 150	Introduction to Information Systems and Applications
CDEV 100	CDEV 107	Child Growth and Development
CDEV 100	PSYC 157	Introduction to Child Psychology
CDEV 110	CDEV 110	Child, Family and Community
CHEM 101	CHEM 209	Introductory Chemistry
CHEM 110	CHEM 219 or CHEM 219H	General Chemistry or Honors General Chemistry
CHEM 150	CHEM 249	Organic Chemistry I
CHEM 120S	CHEM (219 or CHEM 219H) + CHEM 229	General Chemistry or Honors General Chemistry + General Chemistry and Qualitative Analysis
CHEM 160S	CHEM 249 + CHEM 259	Organic Chemistry I + Organic Chemistry II
COMM 110	CMST 102	Public Speaking
COMM 120	CMST 140	Argumentation and Debate
COMM 130	CMST 101 or CMST 101H	Introduction to Interpersonal Communication or Honors Introduction to Interpersonal Communication
COMM 140	CMST 145	Group Dynamics

C-ID	SAC COURSE	
COMM 150	CMST 103 or CMST 103H	Introduction to Intercultural Communication or Honors Introduction to Intercultural Communication
COMM 170	CMST 152	Oral Interpretation
COMP 112	CMPR 120	Introduction to Programming
COMP 122	CMPR 121	Programming Concepts
COMP 132	CMPR 131	Data Structures Concepts
COMP 142	CMPR 129	Introduction to Computer Organization
COMP 152	CMPR 140	Discrete Structures for Computer Science
ECE 120	CDEV 111A	Principles and Practices of Teaching Young Children
ECE 130	CDEV 111B	Introduction to Curriculum for Young Children
ECE 200	CDEV 108	Observation and Assessment for Early Learning and Development
ECE 210	CDEV 298A	Practicum in Early Childhood Programs
ECE 220	CDEV 112	Health, Safety and Nutrition for Children
ECE 230	CDEV 221	Living and Teaching in a Diverse Society
ECON 201	ECON 121	Principles/Micro
ECON 202	ECON 120	Principles/Macro
EDUC 200	EDUC 100	Introduction to Education
ENGL 100	ENGL 101 or ENGL 101H	Freshman Composition or Honors Freshman Composition
ENGL 105	ENGL 102 or ENGL 102H	Literature and Composition or Honors Literature and Composition
ENGL 105	ENGL 103 or ENGL 103H	Critical Thinking and Writing or Honors Critical Thinking and Writing
ENGL 110	ENGL 102 or ENGL 102H	Literature and Composition or Honors Literature and Composition
ENGL 120	ENGL 102 or ENGL 102H	Literature and Composition or Honors Literature and Composition
ENGL 130	ENGL 241	Survey of American Literature 1600-1865
ENGL 135	ENGL 242	Survey of American Literature 1865-Present
ENGL 140	ENGL 271	Survey of World Literature I
ENGL 145	ENGL 272	Survey of World Literature II
ENGL 160	ENGL 231	Survey of English Literature I
ENGL 165	ENGL 232	Survey of English Literature II
ENGL 180	ENGL 270	Children's Literature
ENGL 200	ENGL 213	Creative Writing
ENGR 110	ENGR 100A	Introduction to Engineering
ENGR 130	ENGR 235	Statics
ENGR 150	ENGR 125	Engineering Graphics
ENGR 180	ENGR 118	Surveying
ENGR 230	ENGR 240	Dynamics
FIRE 100 X	FTC 101	Fire Protection Organization
FIRE 110 X	FTC 104	Fire Prevention
FIRE 120 X	FTC 106	Fire Protection Systems
FIRE 130 X	FTC 105	Building Construction for Fire Protection
FIRE 140 X	FTC 102	Fire Behavior and Combustion
FIRE 150 X	FTC 103	Principles of Fire and Emergency Service Safety and Survival
FTVE 130	DM 115A	Single-Camera Production and Editing
GEOG 110	GEOG 101	Physical Geography
GEOG 111	GEOG 101L	Physical Geography Laboratory
GEOG 120	GEOG 102	Cultural Geography
GEOG 125	GEOG 100 or GEOG 100H	World Regional Geography or Honors World Regional Geography
GEOG 130	GEOG 130	Introduction to Weather and Climate
GEOG 140	GEOG 140	California Geography
GEOG 155	GEOG 155 or BA 150	Introduction to Geographic Information Systems
GEOL 100	GEOL 101	Introduction to Geology
GEOL 100L	GEOL 101L	Introduction to Geology Lab
GEOL 111	GEOL 201	Introduction to Historical Geology
GEOL 120	ERTH 110 or ERTH 110H	Introduction to Earth Science or Honors Introduction to Earth Science
GEOL 130	ENVR 140	Environmental Geology
GEOL 130	GEOL 140	Environmental Geology
HIST 130	HIST 120	The United States to 1865
HIST 140	HIST 121 or HIST 121H	The United States Since 1865 or Honors The United States Since 1865
HIST 150	HIST 101 or HIST 101H	World Civilizations to the 16th Century or Honors World Civilizations to the 16th Century
HIST 160	HIST 102 or HIST 102H	World Civilizations Since the 16th Century or Honors World Civilizations Since the 16th Century
HOSP 110	CULN 110	Food Safety and Sanitation
ITIS 120	BUS 150	Introduction to Information Systems and Applications
JOUR 100	CMSD 105 or CMSD 105H	Mass Media and Society or Honors Mass Media and Society
JOUR 110	CMSD 121	Introduction to Reporting and Newswriting
JOUR 130	CMSD 123A	News Media Production
JOUR 131	CMSD 123B	Intermediate News Media Production
JOUR 160	CMSD 160	Introduction to Photojournalism
JOUR 170	CMSD 103	Introduction to Visual Communication
JOUR 210	CMSD 210	Intermediate Reporting and Newswriting
KIN 100	KNPR 101	Introduction to Kinesiology
KIN 101	KNHE 106	Cardiopulmonary Resuscitation and First Aid
KIN 101	KNHE 105 + KNHE 107	First Aid and Personal Safety + Cardiopulmonary Resuscitation
LPPS 100	LAW 100	Introduction to Legal Studies
MATH 110	MATH 219 or MATH 219H	Statistics and Probability or Honors Statistics and Probability
MATH 110	MATH 221	Statistics and Probability with Support
MATH 110	PSYCH 210	Statistics for the Behavioral Sciences
MATH 120	MATH 204	Mathematical Concepts for Elementary School Teachers
MATH 130	MATH 145	Finite Mathematics

C-ID	SAC COURSE	
MATH 140	MATH 150	Calculus for Biological, Management, and Social Sciences
MATH 155	MATH 170	Pre-Calculus Mathematics
MATH 210	MATH 180 or MATH 180H	Single Variable Calculus I or Honors Single Variable Calculus I
MATH 220	MATH 185	Single Variable Calculus II
MATH 230	MATH 280	Intermediate Calculus
MATH 851	MATH 162	Trigonometry
MATH 900S	MATH (180 or 180H) + MATH 185	Single Variable Calculus I or Honors Single Variable Calculus I + Single Variable Calculus II
MATH 910S	MATH 287	Introduction to Linear Algebra and Differential Equations
MUS 100	MUS 101 or MUS 101H	Music Appreciation or Honors Music Appreciation
MUS 110	MUS 110	Music Fundamentals and Culture
MUS 120	MUS 111	Basic Music Theory and Musicianship I
MUS 125	MUS 111	Basic Music Theory and Musicianship I
MUS 130	MUS 112	Music Theory and Musicianship II
MUS 135	MUS 112	Music Theory and Musicianship II
MUS 140	MUS 213	Theory 3
MUS 145	MUS 114A	Musicianship
MUS 150	MUS 214	Theory 4
MUS 155	MUS 114B	Musicianship
MUS 160	MUS 115A	Applied Music (Private Instruction)
MUS 160	MUS 115B	Applied Music (Private Instruction)
MUS 160	MUS 115C	Applied Music (Private Instruction)
MUS 160	MUS 115D	Applied Music (Private Instruction)
MUS 180	MUS 135	Concert Chorale
MUS 180	MUS 137	Chamber Choir
MUS 180	MUS 171	Concert Band
MUS 180	MUS 175	Jazz Ensemble
MUS 180	MUS 181	Chamber Orchestra
MUS 180	MUS 271	Symphonic Band
NUTR 110	NUTR 115 or NUTR 115H	Nutrition or Honors Nutrition
NUTR 120	NUTR 116	Principles of Food Preparation
PHIL 100	PHIL 106 or PHIL 106H	Introduction to Philosophy or Honors Introduction to Philosophy
PHIL 110	PHIL 111	Introductory Logic
PHIL 120	PHIL 108	Ethics
PHYS 105	PHYS 210	Principles of Physics I
PHYS 105	PHYS 279	College Physics I
PHYS 110	PHYS 289	College Physics II
PHYS 110	PHYS 211	Principles of Physics II
PHYS 205	PHYS 210	Principles of Physics I
PHYS 205	PHYS 217	Engineering Physics I
PHYS 210	PHYS 227	Engineering Physics II
POLS 110	POLT 101 or POLT 101H	American Government and Politics or Honors American Government and Politics
POLS 120	POLT 200 or POLT 200H	American Political Thought or Honors American Political Thought
POLS 130	POLT 201	Introduction to Comparative Politics
POLS 140	POLT 220	International Politics

C-ID	SAC COURSE	
PSY 110	PSYC 100 or PSYC 100H	Introduction to Psychology or Honors Introduction to Psychology
PSY 115	PSYC 230	Psychology and Effective Behavior
PSY 150	PSYC 200	Introduction to Biological Psychology
PSY 170	PSYC 240	Introduction to Social Psychology
PSY 170	SOC 240	Introduction to Social Psychology
PSY 180	PSYC 180	Introduction to Lifespan Psychology
PSY 200	PSYC 219	Introduction to Research Methods in Psychology
SJS 110	ETHN 101 or ETHN 101H	Introduction to Ethnic Studies or Honors Introduction to Ethnic Studies
SOCI 110	SOC 100 or SOC 100H	Introduction to Sociology or Honors Introduction to Sociology
SOCI 115	SOC 140 or SOC 140H	Analysis of Social Trends and Problems or Honors Analysis of Social Trends and Problems
SOCI 125	PSYC 210	Statistics for the Behavioral Sciences
SOCI 125	MATH 219 or MATH 219H	Statistics and Probability or Honors Statistics and Probability
SOCI 130	SOC 112	Relationships, Marriages, and Family Dynamics
SPAN 100	SPAN 101 or SPAN 101H	Elementary Spanish I or Honors Elementary Spanish I
SPAN 110	SPAN 102 or SPAN 102H	Elementary Spanish II or Honors Elementary Spanish II
SPAN 200	SPAN 201 or SPAN 201H	Intermediate Spanish I or Honors Intermediate Spanish I
SPAN 210	SPAN 202 or SPAN 202H	Intermediate Spanish II or Honors Intermediate Spanish II
THTR 111	THEA 100	Introduction to Theatre
THTR 113	THEA 105	Theatre History I
THTR 151	THEA 110	Acting Fundamentals
THTR 152	THEA 111	Intermediate Acting
THTR 171	THEA 131	Stagecraft
THTR 173	THEA 133	Lighting Fundamentals
THTR 174	THEA 136	Fundamentals of Costume Design
THTR 174	FDM 136	Fundamentals of Costume Design
THTR 175	THEA 132	Stage Makeup
THTR 191	THEA 150	Theatre Production
THTR 191	THEA 150A	Rehearsal and Performance in Production
THTR 191	THEA 151	Showcase
THTR 191	THEA 152	Tour Ensemble
THTR 191	THEA 154	Performance Ensemble
THTR 191	THEA 155	Children’s Theatre Ensemble
THTR 192	THEA 135	Technical Production
THTR 192	THEA 150	Theatre Production
THTR 192	THEA 150B	Technical Theatre in Production

ACCOUNTING (ACCT)

ACCT 010

Accounting Procedures

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces the students to the accounting cycle including journal entries, general ledger, the adjustment process, and the related financial statements. The course is designed to prepare students for Accounting 101 and/or occupations in bookkeeping.

ACCT 032

Payroll Accounting

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course covers accounting for payroll and worker's compensation. Calculation of payroll, payroll taxes, and the related forms and deposit requirements are covered.

ACCT 035

QuickBooks I

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This is an introductory course on using Quickbooks software in the business environment for preparation of accounting

information. The course will cover accounting theory and practical knowledge of QuickBooks on topics that include company file setup, customizing QuickBooks, recording customer and vendor transactions, bank reconciliations, creation of accounting reports and customization.

ACCT 036

QuickBooks II

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This is an intermediate course on using QuickBooks software in the business environment for preparation of accounting information. Students will cover accounting theory and practical knowledge of QuickBooks on more advanced topics such as inventory management, time and billing, payroll setup, payroll processing, estimates and adjustments and year-end procedures. This course will assist in preparing students for the QuickBooks Certified User exam.

ACCT 101 (C-ID ACCT 110)

Financial Accounting

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

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. Coverage 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. It also includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics. CSU/UC

ACCT 102 (C-ID ACCT 120)

Managerial Accounting

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ACCT 101 with a minimum grade of C.

Study of the use and reporting of accounting data for managerial planning, cost control, and decision making purposes. The course 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. CSU/UC

ACCT 104

Federal and California Taxes

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Learn how to prepare federal and California state income tax returns for the individual. Learn tax theory and rules behind the Form 1040 and the most common IRS Schedules, such as Schedules A, B, C, D, E, and common income adjustments and tax credits. This course is CTEC qualified. This course may be repeatable as continuing education for professional certification. CSU

ACCT 106

Cooperative Work Experience Education - Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

ACCT 108

Tax Practices and Procedures

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The course covers various special topics in tax, including specialized returns and taxpayers; practices, procedures and representation before the IRS and completion of the tax filing process. This course may be repeatable as continuing education for professional certification. CSU

ACCT 113

Intermediate Income Taxes - Corporations

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course covers income tax theory, concepts and regulations relating to corporations. The course includes the federal and California tax systems and income taxation relating to Corporations as well as basic tax research and ethical implications. This course includes coverage of both C Corporations and S Corporations. CSU

ACCT 114

Intermediate Income Taxes - Partnerships and LLCs

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course covers income tax theory, concepts, and regulations relating to partnerships. The course includes the federal and California tax systems and income taxation relating to partnerships and other forms of business such as LLCs as well as basic tax research and ethical implications. CSU

ACCT 124

Computerized Income Tax Preparation

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course provides a student with the practical knowledge of income tax preparation and the income tax formula using commercialtax software. CSU

ACCT 125

Volunteer Income Tax Assistance (VITA) I

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Recommended Preparation: ACCT 104 with a minimum grade of C.

This course will cover Federal and California individual income tax theories and laws to prepare students to successfully pass the IRS-provided online Basic, Advanced, and additional tax exams and be eligible to volunteer in the IRS-sponsored Volunteer Income Tax Assistance (VITA) program. The successful completion of the course and passing the exams will prepare students to work as an intern or volunteer at a VITA site to prepare tax returns and have face-to-face interaction with taxpayers. CSU

ACCT 198

Topics

Unit(s): 1.0-4.0 Class Hours: 18.0-72.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Accounting. CSU

ACCT 204

Managerial Cost Accounting

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ACCT 102 with a minimum grade of C.

Study of cost behavior, cost accounting, and cost control; the use of accounting information for management planning and decision making; cost systems, budgeting, and financial performance analysis. CSU

ACCT 205

Intermediate Accounting I

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ACCT 102 with a minimum grade of C.

An intermediate study of accounting theory and the conceptual framework; preparation of income statements and comprehensive income, balance sheets and statements of cash flows. Coverage includes present value; and accounting concepts related to the asset side of the balance sheet. CSU

ACCT 206

Intermediate Accounting II

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ACCT 205 with a minimum grade of C.

Second course in intermediate series in financial accounting that covers current and long-term liabilities, income taxes, pensions and post-retirement benefits, leases, stockholders' equity, earnings per share, and statement of cash flows. In addition, changes and/or in accounting methods, accounting estimates, or reporting entity are analyzed. Disclosure issues in financial statements are also addressed. CSU

ACCT 210

Accounting Information Systems

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ACCT 101 with a minimum grade of C.

Introductory course to accounting information systems that applies accounting principles using database and spreadsheet software. Designed to develop employable accounting analysis skills; evaluate and compare commercial software; analyze financial statements and understand role of internal controls. CSU

ACCT 211

Auditing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ACCT 102 with a minimum grade of C.

This course examines the use of financial statement audits and details the audit process. Topics include professional responsibilities of auditors, audit design, sampling approaches, substantive testing, testing controls, and audit report formulation and communication. CSU

ACCT 212

Accountants' Ethics and Responsibilities

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Focuses on the foundations of ethics & the professional responsibilities of accountants & CPAs; including ethical behavior and responding to ethical dilemmas. Topical content will include relevant professional, ethical standards and regulations, as well as research and practice concerning challenging ethical situations. The course will focus on the discussion of ethical cases and study of professional ethical standards set forth by both the AICPA and California State Board of Accountancy. CSU

AMERICAN SIGN LANGUAGE (ASL)

ASL 110

American Sign Language I

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

This entry level course is designed to introduce students to American Sign Language (ASL) and fingerspelling as it is used within American Deaf culture. Instruction includes preparation for visual/gestural communication followed by intensive work on comprehension through receptive language skills, development of basic conversational skills, modeling of grammatical structures, and general information about American Deaf culture. Sign Language 110 is equivalent to two years of high school ASL. Students are required to attend at least one off-campus event. CSU/UC

ASL 111

American Sign Language II

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ASL 110 with a minimum grade of C.

The second course in the study of American Sign Language (ASL) focuses on increased vocabulary development, intermediate comprehension and conversational skills, application of grammatical structures and practice in the receptive and expressive aspects of ASL, as well as appreciation of American Deaf culture, and history. Students are required to attend at least one off campus event. CSU/UC

ASL 113

Introduction to Interpreting for the Deaf

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ASL 210 with a minimum grade of C.

The study of the history of sign language interpreting and the theoretical foundations and technical skills needed to interpret in professional settings for deaf and hard-of- hearing children and adults. The roles, responsibilities, and ethics of interpreters providing interpreting services in various professional settings will be examined. Students are required to attend two off campus events. CSU

ASL 114

Classifiers, Fingerspelling, and Numbering

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ASL 210 with a minimum grade of C.

This course is designed to provide specialized instruction in the continued development of skills and application of expanded conceptualization of American Sign Language (ASL) classifiers, fingerspelling, and numbering concepts and further exploration and understanding of American Deaf culture. Expressive and receptive techniques will be emphasized. Students are required to attend one off campus event. CSU

ASL 116

Introduction to Deaf Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This is an introductory course exploring the cultural, educational, linguistic, and audiological experiences of people who are deaf, hard of hearing, deaf/blind, and late- deafened in America. Students will be exposed to historical and current perspectives in trends, philosophies, ideologies, and the Deaf community as a subculture of American society. CSU/UC

ASL 210

American Sign Language III

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ASL 111 with a minimum grade of C.

The third course in the study of American Sign Language (ASL) emphasizes advanced ASL syntax, non-manual markers, vocabulary, and fingerspelling enabling students to participate in more complex conversations with Deaf community members. Students will have emphasis on expressive skills in narrative form. Students are required to attend at least one off campus event. CSU/UC

ASL 211

American Sign Language IV

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ASL 210 with a minimum grade of C.

This course continues the study and development of American Sign Language receptive and expressive linguistic competence. Emphasis on production/conversational skills in American Sign Language, along with continued focus on grammatical and cultural features.

Students are required to attend at least one off campus event. CSU/UC

ANTHROPOLOGY (ANTH)

ANTH 100 (C-ID ANTH 120)

Introduction to Cultural Anthropology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A cross-cultural survey of the major areas of cultural anthropology including subsistence patterns, economic and political systems, family and kinship, religion, and cultural change. Also includes contemporary issues facing humankind such as the environment, resource depletion, ethnic conflict, globalization, and warfare. Emphasis is on understanding cultural diversity and cultural universals. Field trips may be required. CSU/UC

ANTH 100H (C-ID ANTH 120)

Honors Introduction to Cultural Anthropology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Seminar style, content enriched for honors students, to provide a critical and extensive exploration of the major areas of cultural anthropology. Includes contemporary issues such as globalization, gender, and ethnic conflict. Field trips may be required. CSU/UC

ANTH 101 (C-ID ANTH 110)

Introduction to Physical Anthropology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to humankind's place in nature including evolutionary theory, principles of genetics, primate evolution and behavior, fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes practical application of biological anthropology to human problems. CSU/UC

ANTH 101L

Physical Anthropology Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: Anthropology 101 or concurrent enrollment.

Laboratory exercises and experiments designed to explore and understand the primary areas of physical anthropology: evolutionary theory, principles of genetics, comparative anatomy, physiology, behavior and ecology of vertebrates with an emphasis on nonhuman primates, analysis of fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes both traditional and virtual laboratory experiences. CSU/UC

ANTH 103 (C-ID ANTH 150)

Introduction to Archaeology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This is a survey course in world archaeology. Methods of archaeological survey and excavation will be discussed as well as past and current concepts and theories. Material remains such as lithics, bone, ceramics and ecofacts will be discussed as to how they can be interpreted into social, political, economic, religious, and ethnic terms. CSU/UC

ANTH 104 (C-ID ANTH 130)

Language and Culture

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

General introduction to the processes of human communication emphasizing coextensive aspects of language and culture. Surveys core areas of linguistic anthropology: structural linguistics; biological basis of language; and sociolinguistics. Topics include acquisition of first and second languages, languages in contact, and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as basis of study. (Same as English 104.) CSU/UC

ANTH 104H (C-ID ANTH 130)

Honors Language and Culture

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

General introduction to the processes of human communication, emphasizing coextensive aspects of language and culture. Surveys core areas of lingusitic anthropology: structural linguistics, biological basis of language, and sociolinguistics. Topics include acquisition of first and second languages, languages in contact, and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as basis of study. Requires individual research and oral presentation of readings in a seminar setting (Sane as English 104H). CSU/UC

ANTH 105

Ancient Mesoamerican Civilization

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An archeological and ethnohistorical survey of the origin and development of pre-Columbian civilizations in ancient Mesoamerica from Paleo-Indian times to the Spanish conquest (Same as History 105). CSU/UC

ANTH 108

Religion, Magic, and Witchcraft

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the anthropology of religion, magic, and witchcraft. A cross cultural study focusing on the beliefs and practices of early, non-western, and traditional religious systems with emphasis on the forms, functions, structures, symbolism, history, and evolution. CSU/UC

ANTH 125

Native Americans in the U.S.

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An historical and contemporary survey of Native Americans in the United States including the development of tribes and nations and the cultural practices of Native Americans today. Field trips may be required. (Same as History 125). CSU/UC

Art (ART)

ART 009

Art Lab

Unit(s): 0.5 Class Hours: 27.0 Lab total.

An open lab for studio art students for the purpose of devoting additional hours outside of class time on projects. Projects, determined by class assignments, vary by semester. Twenty- four lab hours per semester earn .5 unit.

ART 010

Advanced Art Lab

Unit(s): 0.5 Class Hours: 27.0 Lab total.

An open lab for studio art students devoting additional hours on projects. Projects, determined by class assignments, vary by semester. 24 lab hours per semester earn .5 unit. Requires concurrent enrollment in another art course.

ART 011

Intro to 3D Modeling & Animation

Unit(s): 0.5 Class Hours: 9.0 Lecture, 4.5 Lab total.

Introduction to digital 3D modeling & animation basics. This hands-on class will focus on modeling and animating a cartoon character and environment from an instructor provided drawing, using 3D Studio Max software. A combination of may be taken a maximum of four enrollments.

ART 100 (C-ID ARTH 100)

Introduction to Art Concepts

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the visual arts in relation to both personal and cultural expressions. Fundamentals of visual organization, color theory, terminology, historical art movements and concepts will be studied. Required for art majors. CSU/UC

ART 100H (C-ID ARTH 100)

Honors Introduction to Art Concepts

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Enriched exposure to a study of the visual arts in relation to personal and cultural expression with an emphasis on critical thinking and writing. Fundamentals of visual organization, color theory, terminology, historical art movements and concepts will be studied in a seminar format. CSU/UC

ART 101 (C-ID ARTH 110)

Survey of Western Art History I: Prehistory through the Middle Ages

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

The study of art from Prehistory through Middle Ages. Cultures and Civilizations are studied through visual imagery, lecture, class discussion, reading, research, and field trips. Recommended sequence of courses: Art 100, Art 101, Art 102. CSU/UC

ART 102 (C-ID ARTH 120)

Survey of Western Art History II: Renaissance through the Twentieth Century

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

The study of Western art history from the Renaissance through the 20th century. Art movements and individual painters, sculptors, architects, and printmakers will be presented within the context of the social, political, and intellectual histories of their respective periods. Required for art majors. CSU/UC

ART 103 (C-ID ARTH 140)

Arts of Africa, Oceania, and Indigenous North America

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

History and appreciation of the arts of Africa, Oceania, and indigenous North America. Examines the visual arts of these vast and varied cultures within socio-political, aesthetic, religious contexts and their impact on Western art in Europe and the Americas. CSU/UC

ART 104

Mexican and Chicano Art History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The history and appreciation of Mexican and Chicano art from the pre-Columbian to the present including the modern murals of Mexico and the United States. CSU/UC

ART 105

History of Modern Art

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

History of painting, sculpture, architecture, prints, and applied arts from the late nineteenth century through the twentieth century. Covers the formal philosophic, spiritual, and historical background of art from Post Impressionism to Post Modernism. For general students and art majors. CSU/UC

ART 106 (C-ID ARTH 130)

Asian Art History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Historical survey of the visual arts of India, China, Japan, Korea and Southeast Asia. Includes relationship of Far Eastern philosophy and culture to artistic achievement. Emphasizes works of art in terms of style, technique, and content. CSU/UC

ART 107

History of Animation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Critical and historical survey of animation as a form of communication and cultural expression, from prehistoric origins to present digital formats. Animation history is studied in relation to the background for its creation in contemporary culture and society including the U.S.A., Europe, and Japan. Students analyze and evaluate a large cross-section of animated works. CSU/UC

ART 108

Contemporary Art History: Art Since Mid- Twentieth Century

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey course exploring post World War II styles, trends, ideas, and innovations in architecture and the visual arts in Europe and North America with references to globalization. CSU/UC

ART 109

Introduction to Woodworking

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

An introduction to the fundamentals of woodworking with a focus on wood as a medium for creative expression. Emphasizes knowledge of and proficiency with hard to soft woods; grain patterns; finishing techniques; fabrication; and joinery. Students learn and observe safety standards as they gain skills with hand tools, small power tools and larger machinery in the shop. CSU/UC

ART 110 (C-ID ARTS 100)

Two-Dimensional Design

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Introduction to the principles and elements of two-dimensional design. Provides instruction in the fundamentals of visual communication including color theory, composition, and expression. Application of concepts through creative projects. Required for art majors. A combination of ART 110 and ART 111 may be taken a maximum of four enrollments. CSU/UC

ART 111 (C-ID ARTS 101)

Three-Dimensional Design

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Fundamentals of visual organization as applied to objects in-the-round. Visual space problems, structure, and dimensional terminology through creative projects in various media. Required for art majors. A combination of ART 110 and ART 111 may be taken a maximum of four enrollments. CSU/UC

ART 121A

Fundamentals of Typography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 195 with a minimum grade of C.

Introduction to the use of type styles, appropriate type selection and their characteristics as a means toward understanding design and communication through type solutions. Projects will explore current graphics industry practices and standards, including the use of digital technology and traditional hand skills. A combination of ART 121A and ART 121B and ART 122 may be taken a maximum of four enrollments. CSU/UC

ART 121B

Advanced Typography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 121A with a minimum grade of C.

This course provides continued study in typography and appropriate type selection as a means for solving complex graphic design problems, such as illustrative type or multiple page layout using traditional hand skills, digital technology and portfolio presentations. A combination of ART 121A and ART 121B and ART 122 may be taken a maximum of four enrollments. CSU/UC

ART 122

Graphic Design I

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 195 with a minimum grade of C.

Introduction to basic graphic design concepts, techniques and practices resulting in the production of effective visual communications. Projects combine text with images, using current industry standards and technology in print media and other design applications. Art 110, 162, 191A, and 192A recommended. A combination of ART 121A and ART 121B and ART 122 may be taken a maximum of four enrollments. CSU/UC

ART 124

Gallery Production

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Instruction in preparation and installation of art exhibits, gallery management, and working on a museum exhibition staff. Includes lectures, visits to artists' studios, and opportunities to work on art shows in two college galleries. Field trips include visits to local galleries and behind-the-scenes museum tours of collections and exhibition preparation areas. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

ART 125

Cooperative Work Experience - Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

Prerequisite: This course is major-specific. Students majoring in Digital Media Arts or Graphic Design must show evidence of 6 units of completed coursework within the fields of Digital Media Arts and/ or Graphic Design. Please contact the instructor for assistance in developing a resume and online portfolio required to find work in this field.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major to enable them to become productive employees. This course also provides students with career awareness of jobs. 75 hours of paid work or 60 hours of unpaid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. (Pass/No Pass Only) CSU

ART 130 (C-ID ARTS 110)

Introduction to Drawing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Introductory course in observational drawing, exploring line, form, proportion, composition, and a variety of media. Drawing from man-made and natural objects. Required for art majors. A combination of Art 130, Art 230, and Art 233 may be taken a maximum of four enrollments. CSU/UC

ART 131 (C-ID ARTS 200)

Beginning Life Drawing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 130 with a minimum grade of C.

Introduction to drawing the human form by observing live models for studies in anatomy, structure, and composition. Exposure to traditional and contemporary figurative drawing while exploring media and methods. Required for art majors. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

ART 132A

Beginning Pastel Drawing and Painting

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 130 with a minimum grade of C.

Development of pastel drawing and painting skills using various techniques. Strong emphasis on color theory, value, and composition. Preparation of grounds using various papers. Study of historical and contemporary pastel styles and techniques. A combination of ART 132A and ART 132B may be taken a maximum of four enrollments. CSU/UC

ART 132B

Intermediate Pastel Drawing and Painting

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 132A with a minimum grade of C.

Intensive exploration of contemporary uses of pastels Intermediate and advanced projects emphasizing pastel drawing/painting concepts in conjunction with other media. Emphasis on creative, personal expression, content, and style development. A combination of ART 132A and ART 132B may be taken a maximum of four enrollments. CSU/UC

ART 133

Introduction to Gallery Production

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Introduction to the practices of art exhibit preparation and installation. Students will gain knowledge in the history and theory of art exhibition, as well as the current state of gallery management and museum work. Emphasis is on learning and utilizing industry- standard terminology, materials and tools. Students will move from observation to practical experience as they support the daily operations and special events of two college galleries. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

ART 134

Intermediate Gallery Production

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Prerequisite: ART 133 with a minimum grade of C.

An intermediate course designed to build on knowledge and skills gained in Art 133.

Students have opportunities to increase experience with new exhibitions and installations. Emphasis is on solving art gallery problems using current industry-standard communication and practices. Visits to local galleries and behind-the-scenes museum tours of collections and exhibition preparation areas. Students will also use woodshop equipment to build pedestals as well as draft an exhibition proposal and artwork layout. A combination of may be taken a maximum of four enrollments. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

ART 135

Advanced Gallery Production

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Prerequisite: ART 134 with a minimum grade of C.

Students produce a unique exhibition on campus using knowledge and skills gained in Art 133 and 134. Emphasis will be on independently curating, designing, lighting, writing didactic material, and publicizing their exhibition. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

ART 140A

Watercolor Painting

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to watercolor painting as a creative art form with emphasis on transparent watercolor techniques. Course includes principles of composition and color theory, materials selection, tools, terminology, and various watercolor techniques. Students develop basic watercolor skills while painting from simple forms and progressing to a variety of subjects. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

ART 140B

Watercolor Painting

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: ART 140A with a minimum grade of C.

A continuing course in transparent watercolor techniques providing the opportunity to advance the creativity of those with basic skills in watercolor. Further study of formal elements and composition while painting from varied subject matter. Emphasis on refinement of methods and techniques for more expressive painting. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

ART 141

Beginning Painting

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 110 and ART 130 with a minimum grade of C.

Introduction to acrylic and/or water soluble oil painting as a creative art form with exposure to historical, traditional and contemporary painting styles. Course includes principles of composition and color theory, materials selection, tools, terminology, and techniques. Students develop basic skills painting a variety of subjects. Required for art majors. A combination of ART 141, ART 241, and ART 242 may be taken a maximum of four enrollments. CSU/UC

ART 143

Landscape Watercolor

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: ART 140A with a minimum grade of C.

Intermediate course in transparent watercolor using the Southern California landscape as studio and subject for paintings. Explores a variety of techniques, papers, brushes, and pigments. Further study of compositional/ conceptual elements leading to development of individual expression. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

ART 150

Primitive Pottery Techniques

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Primitive techniques in pottery construction and firing. Emphasizes handbuilt forms. Students will construct tools. Sawdust, raku, dung, low temperature salt, and other pit firings will be utilized. CSU/UC

ART 151

Ceramics-Introductory Level

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Exploration of clay as a structural and creative material. Experiences include throwing on the potter's wheel and hand building. Instruction includes surface design, glazing, and experience in utilitarian forms. Students provide clay and tools. A combination of ART 151 and ART 152 and ART 153 may be taken a maximum of four enrollments. CSU/UC

ART 152

Ceramics-Intermediate Throwing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Further study of wheel thrown techniques with an emphasis on functional, utilitarian forms. Students provide own clay and tools. A combination of ART 151 and ART 152 and ART 153 may be taken a maximum of four enrollments. CSU/UC

ART 153

Ceramics-Intermediate Handbuilding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Further study of handbuilding techniques with emphasis on one-of-a-kind sculptural forms. Non-traditional alternatives to glazes are explored. Students provide own clay and tools. A combination of ART 151 and ART 152 and ART 153 may be taken a maximum of four enrollments. CSU/UC

ART 154

Ceramics Summer Workshop

Unit(s): 3.0 Class Hours: 27.0 Lecture, 81.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

For intermediate/advanced students interested in a self-guided study/ exploration in the ceramic medium. Emphasizes technical aspects and artistic imageries. Invited artists will provide supplementary guidance. Students provide own clay and tools. CSU/UC

ART 155

Plaster Mold Making

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Basic aspects of plaster of Paris mold making: production of molds from original models in order to reproduce those models; alteration of those plaster mold castings into a more artistic, personalized imagery. A combination of ART 155 and ART 157 may be taken a maximum of four enrollments. CSU/UC

ART 156

Clay Calculation: An Approach in Color Study

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Basic uses of color clays as a decorative tool in making pottery forms. Techniques of sprigging, incising, inlay, and lamination are utilized with wheel-thrown, handbuilding, and plaster mold construction methods. A combination of ART 156 and ART 159A and ART 159B may be taken a maximum of four enrollments. CSU/UC

ART 157

Ceramics-Raku and Saggar Firing Techniques

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Use of the potter's wheel and/or handbuilding techniques as methods for constructing vessel forms. Includes a study of surface coloration from natural organic materials. Several firing techniques will be utilized. A combination of ART 155 and ART 157 may be taken a maximum of four enrollments. CSU/UC

ART 158

Ceramic Mural Project

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Students will work collaboratively to design, construction, and installation of a tile mural. Includes various techniques of surface textures, glaze colors, spatial compositions, and technical processes of installation. Students provide own clay and tools. Projects vary each semester. CSU/UC

ART 159A

Ceramic Color Decoration: Low Temperature

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Exploration of surface color decoration on ceramic vessels. Emphasizes glazing techniques (low temperatures only) such as underglazes, lusters, engobes, sgraffito, decals, slip trailing, wax resist, burnishing and ceramic pencils/crayons. A combination of ART 156 and ART 159A and ART 159B may be taken a maximum of four enrollments. CSU/UC

ART 159B

Ceramic Color Decoration: High Temperature

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Exploration of surface color decoration on ceramic vessels within the realm of high stoneware temperatures. Emphasizes glazing techniques such as marbling, feathering, mishima, brush decoration, stencils, stamp printing, spraying, slip painting, glaze trailing, wax resist, and terra sigallata. A combination of ART 156 and ART 159A and ART 159B may be taken a maximum of four enrollments. CSU/ UC

ART 162

Digital Illustration I

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 195 with a minimum grade of C.

Explores the essentials of Adobe design software and production tools 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. Primary software used includes Adobe Photoshop, supplemented with Adobe Illustrator and some time-based media software. A combination of Art 162, Art 191A, and Art 192A may be taken a maximum of four enrollments. CSU/UC

ART 164

Web Design

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Introduction to web design using digital media tools; graphics, illustrations, text, sound, motion, using software programs for the web. Students research how software programs are used in business presentations, advertising, entertainment, and self-promotion. Overview of elements and principles of design and motion. CSU/UC

ART 165

3D Character Animation

Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: ART 197A or TELV 185 with a minimum grade of C.

Instruction in the theories and practice of character animation using digital 3d software. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU

ART 166A

3D Texturing and Lighting Fundamentals

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 196A with a minimum grade of C.

Instruction in the fundamentals of making and applying surface textures and lighting effects for digital 3D objects and scenes as used in video games, interactive media, television, film, previz, product illustration, architectural and bioscience visualization. A combination of ART 166A and ART 180A may be taken a maximum of four enrollments. CSU/UC

ART 166B

Texturing & Lighting Intermediate

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 166A with a minimum grade of C.

Instruction in intermediate making and applying surface textures and lighting effects in digital 3D scenes as used in video games, interactive media, television, film, previz, product illustration, architectural and bioscience visualization. Students are to work on projects geared to their chosen area of interest, and then are provided with instruction and guidance to increase proficiency, speed and communication skills required as a professional digital 3D artist. A combination of may be taken a maximum of four enrollments. CSU/ UC

ART 167

3D Commercial Applications

Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: ART 197A or TELV 185 with a minimum grade of C.

Capstone course focusing on developing 3D artwork for specific commercial purposes and formats. Includes field trips and developing a web-based portfolio. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU

ART 168

Graphic Design II: Branding & Identity

Unit(s): 2.0 Class Hours: 36.0 Lecture, 18.0 Lab total.

Prerequisite: ART 195 with a minimum grade of C.

Recommended Preparation: 6 units of digital design-based coursework prior to enrollment.

A comprehensive design course serving as the capstone for all Digital Media Arts & Graphic Design programs. Students develop a career/ transfer-ready digital portfolio through team- based branding and identity design development for multiple media applications. Focus is on both business and personal branding. Career goals, resumes, online portfolios, interviewing skills and customer service needs are addressed. 6 units of digital media oriented coursework recommended. CSU

ART 169

Game Design & Development Team

Unit(s): 1.5 Class Hours: 9.0 Lecture, 54.0 Lab total.

Prerequisite: ART 180A with a minimum grade of C.

Students design and develop original video game projects in a team setting and in a simulated video game production studio setting. The working game(s) and/or working prototypes will be entered into the annual IEEE Intercollegiate Computer Game Competition. Can be repeated up to 3 times. CSU

ART 180A

Video Game and Interactive Media Art Fundamentals

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: ART 196A with a minimum grade of C.

Hands-on overview of art production for games and interactive media. Focus on how to use digital 3D art for creating environments for games. Instruction in industry standard graphics software and techniques in art production from concept to finished art assets for games. A combination of ART 166A and ART 180A may be taken a maximum of four enrollments. CSU

ART 182

Introduction to Jewelry

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Basic instruction in jewelry fabrication including silver soldering, direct casting and forging, patinas, cold connection, and piercing. A combination of ART 182 may be taken a maximum of four enrollments. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

ART 184

Art of Animation I

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 130 with a minimum grade of C.

This course is a beginning-level animation production class for those with little or no prior animation or digital art experience. Through lectures and research projects, students learn about the history and aesthetics of animation, while concurrently gaining hands-on experience in how to create animations through in-class step-by-step projects. Students will produce basic 2D and 3D animations and assets using Adobe Photoshop, Gimp and 3D animation software. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU/UC

ART 185

Fundamentals of Cartooning and Storyboarding

Unit(s): 3.0 Class Hours: 27.0 Lecture, 54.0 Lab total.

Introduction to basic cartooning, character development, and story boarding as used in television, film, and electronic games. Includes sketching, inking, the development of characters, storyboard development, and an overview of cartoon and storyboard history. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU/UC

ART 190

Introduction to Mural Painting and Design

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

A directed field studies course in designing and painting large-scale public art murals. Students will work collaboratively in groups and with the community to create designs. This class explores the various processes involved in the construction of large-scale public art while painting a variety of subject matter. Students will learn about historical, traditional and contemporary mural painting styles. CSU/UC

ART 191A

Layout Design

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

An introduction to digital publishing and page layouts. Projects explore the design and development of single and multiple page documents. Includes advanced techniques in complex documents, interactive, and web- ready pages. Primary software: Adobe InDesign. A combination of Art 162, Art 191A, and Art 192A may be taken a maximum of four enrollments. CSU

ART 192A

Digital Illustration II: Advanced Topics

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 195 with a minimum grade of C.

Examines intermediate design and illustration techniques using industry standard software via Adobe Creative Cloud. Addresses contemporary illustrative problems, concepts, and skills development within the digital media and graphic arts industries for creation of unique illustrations. Technical needs for graphic illustration for print, animation, and the web will also be addressed. Primary software: Adobe Illustrator, supplemented with Adobe Photoshop. A combination of Art 162, Art 191A, and Art 192A may be taken a maximum of four enrollments. CSU/UC

ART 193

Motion Graphics with Adobe After Effects

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

This graphics animation course covers the development of original motion graphics. Video editing skills are refined within the animation software to create animated clips for use in multiple media applications. Some experience in non-linear digital video editing is recommended, as well as some graphic design experience. (Same as DM 193) CSU/UC

ART 195 (C-ID ARTS 250)

Introduction to Digital Media Arts

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Foundation-level course designed for graphic designers, artists, photographers, web designers, programmers, and animation artists working in the digital realm. This course includes an overview of industry-standard software, including Adobe Creative Cloud for digital design in montage, vector, layout and time-based media. A combination of Art 195 may be taken a maximum of four enrollments CSU/UC

ART 196A

3D Modeling Fundamentals

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: ART 195 or ART 184 with a minimum grade of C.

This is an introductory course in developing digital 3D art for video games, film, advertising and pre-visualization for product and architectural design. Focus is placed on building digital 3d characters, props and environments that will be used in students' own animated short film or video game ideas. By employing the teacher-provided project management tools, students gain hands-on experience in how animated and interactive media projects are developed. Industry-standard low and high poly modeling methods, which utilize normal map application, is emphasized to ensure optimized models with stunning detail. A combination of ART 196A and ART 197A may be taken a maximum of four enrollments. CSU/UC

ART 196B

3D Modeling Intermediate

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 196A with a minimum grade of C.

Instruction in intermediate-level digital 3D modeling methods as used in video games, interactive media, television, film, previz, product illustration, architectural and bioscience visualization. Students are to model subjects geared to their chosen area of interest and then are provided instruction and guidance to increase proficiency, speed and communication skills required for professional 3D modelers. A combination of may be taken a maximum of four enrollments. CSU/UC

ART 197A

3D Animation Fundamentals

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: ART 196A with a minimum grade of C.

Instruction in using 3D animation software for the purpose of linear storytelling. Emphasis on the incorporation of the classic principles of animation, and in learning the core components of the software that are necessary for effective visual communication A combination of ART 196A and ART 197A may be taken a maximum of four enrollments. CSU/UC

ART 197B

3D Animation Intermediate

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 197A with a minimum grade of C.

Instruction in intermediate-level 3D animation techniques for linear and non-linear storytelling (e.g. film or video games). Emphasis is on the incorporation of the classic principles of animation, and learning the core components of the software that are necessary for effective visual communication. A combination of may be taken a maximum of four enrollments. CSU/UC

ART 197C

3D Animation Advanced

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: ART 197B with a minimum grade of C.

Instruction in advanced level 3D animation techniques for linear and non-linear storytelling (e.g. film or video games). Emphasis is on the incorporation of the classic principles of animation, and in learning the core components of the software that are necessary for effective visual communication. A combination of ART 184 and ART 197C and ART 185 and ART 165 and ART 167 may be taken a maximum of four enrollments. CSU/UC

ART 199

Independent Study

Prerequisite: Divisional approval. To be eligible for independent study a student must be concurrently enrolled in at least one other class at either Santa Ana College or Santiago Canyon College and must show evidence of competence in his academic major and the area in which he proposes to do independent study. (SAC catalog). CSU

ART 230 (C-ID ARTS 205)

Intermediate Drawing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 130 with a minimum grade of C.

An intermediate course in the study of drawing designed to give students who have completed an introductory drawing course additional opportunity in graphic expression. Further exploration of materials including a wide variety of both drawing and mixed media. Students continue the development of composition and more intermediate concepts. The class emphasizes individual expression. A combination of Art 130, Art 230, and Art 233 may be taken a maximum of four enrollments. CSU/UC

ART 231

Intermediate Life Drawing

Unit(s): 3.0 Class Hours: 5.0 Lecture, 72.0 Lab total.

Prerequisite: ART 131 with a minimum grade of C.

Continued experience in drawing from the live model with opportunity for development of self-expression. Further exploration of media and techniques. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

ART 232

Advanced Life Drawing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 231 with a minimum grade of C.

Intensive study of the human figure with further advanced level development of drawing skills, composition, technique, and media utilizing the live model. Projects vary each semester. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

ART 233

Advanced Drawing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 230 with a minimum grade of C.

To further develop individual graphic expression, students will plan a series of drawing problems to be executed during the semester under the instructor's direction. Exploration of new materials and techniques. A combination of Art 130, Art 230, and Art 233 may be taken a maximum of four enrollments. CSU/UC

ART 240

Intermediate Watercolor

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: ART 140B with a minimum grade of C.

An intermediate level course providing for continuing development of watercolor painting skills. Further refinement of media, technique and expression of style through more advanced painting projects. Subject matter content includes still life, landscape, figurative studies, abstraction, and individual creative expression. Traditional and non-traditional approaches. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

ART 241

Intermediate Painting

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 141 with a minimum grade of C.

An intermediate level class designed to promote and advance the creative development of those with basic skills in water- soluble oil and/or acrylic painting. Opportunity for further study of historical and contemporary references and to increase experience with new media, methods, and techniques. Emphasis on artistic expression and individual creative problems. A combination of ART 141, ART 241, and ART 242 may be taken a maximum of four enrollments. CSU/UC

ART 242

Advanced Painting

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 241 with a minimum grade of C.

An advanced level studio course providing opportunity for further refinement of painting skills with increasing exposure to contemporary styles. Emphasis on research and individual creative problems in painting. Exploration into a personal mode of expression through development of media, technique, and style. Classroom studio use of oils limited to water- soluble oil paint only. A combination of ART 141, ART 241, and ART 242 may be taken a maximum of four enrollments. CSU/UC

ART 243

Portrait and Life Painting

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 131 or ART 141 with a minimum grade of C.

Painting of the human form with study of portraiture and anatomy. Compositions in representation of the life model through interpretive studies in watercolor, pastels, water soluble oil, and acrylic. Study of traditional and contemporary methods and directions. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

ART 251

Ceramics-Advanced Throwing and Handbuilding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 152 with a minimum grade of C.

Study of thrown and handbuilt sculptural forms. Exploration of decoration and glaze techniques and incorporation of non-traditional materials such as metal/wood/plastics/paints. CSU/UC

ART 252

Ceramics-Advanced Study Process in Ceramics with Non-Traditional Media

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 152 or ART 153 with a minimum grade of C.

An advanced study in the ceramic process as it relates to a non-clay media approach. A sculptural form study with non-traditional materials as surface enhancements. CSU/UC

ART 253

Electric Kiln Ceramics

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 151 with a minimum grade of C.

Provides student potters working studio production knowledge of the uses of an oxidizing electric kiln. Emphasizes types of electric kilns, spectrum of glaze formulas, and safety procedures of firing. CSU

ART 282

Jewelry II

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: ART 182 with a minimum grade of C.

Continued instruction in the making of jewelry by means of fabrication, including techniques in silver soldering, die forming, etching, tool making, and hinge mechanisms. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

ART 283

Jewelry III

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: ART 282 with a minimum grade of C.

Advanced instruction in the making of jewelry by means of complex fabrication. Explores various traditional metal working techniques including mokume, inlay, complex soldering and raising. Gives opportunity for intensive work on projects of individual interest. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

ART 284

Introduction to Stone Setting-Jewelry

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Course is an introduction to basic jewelry hand skills, including sawing, filing, soldering, and some fabrication. Emphasis is on cabochon and tube stone setting. Students supply their own stones and metal. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

ART 285

Introduction to Enameling-Jewelry

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

An introduction to basic jewelry enameling, including some sawing, filing, and metal forming fabrication with emphasis on color and attention to two dimensional design. Emphasis is on enameling on sheet metal and some cloisonne. Students supply their own enamel and metal. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

ART 291

Mural Painting and Design II

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 190 with a minimum grade of C.

An intermediate level mural art class designed to promote and advance the creative development of those with basic skills in mural painting. Opportunity for further study of historical and contemporary references and to increase experience with new media, methods, and techniques. Students will work collaboratively in groups and with the community to create designs. Intermediate students will take on more leadership roles in the group creative dynamic. CSU/UC

ART 292

Mural Painting and Design III

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Prerequisite: ART 291 with a minimum grade of C.

An advanced level studio course providing opportunity for further refinement of large scale painting skills with increasing exposure to contemporary styles in mural painting. Exploration into an advanced personal mode of expression through development of media, technique, and style. CSU/UC

ART 296

Professional Art Production

Unit(s): 1.5 Class Hours: 18.0 Lecture, 45.0 Lab total.

Prerequisite: ART 196A with a minimum grade of C.

Designed to provide practice in developing digital 3d or multimedia art projects for actual clients or in a simulated setting. Students choose an art project based on strengths, interests and market need to work on during the class. CSU

ART 298

Art Practicum

Unit(s): 1.0 Class Hours: 5.6 Lab total.

Prerequisite: Portfolio review and previous or concurrent enrollment in a 200 level art course.

Directed study at selected locations providing workplace experience such as: gallery assistant, artist's apprentice, docent trainee, graphic design apprentice, etc. Before placement, skills assessed to match abilities with project needs. Experience differs each semester. CSU

ASIAN AMERICAN STUDIES (ASIA)

ASIA 101

Introduction to Asian American Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the field of Asian Pacific American Studies. An interdisciplinary approach will be employed to study the experiences of various Asian and Pacific Islander groups in the United States utilizing the perspectives of race, nationality, class, gender, and sexuality. The course will cover historical and contemporary issues within Asian Pacific American communities, including immigration, anti-Asian violence, labor, unionization, and stereotypes. CSU/UC

ASTRONOMY (ASTR)

ASTR 109

Introduction to the Solar System

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Surveys history of astronomy, recent research and observations of the planets, moons, and other solar system objects. Exploration of light and gravity to understand formation, properties, and motion of Solar System objects. CSU/UC

ASTR 110

Introduction to Stars and Galaxies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Surveys the development of astronomy, current research and observations of stars, galaxies, and large-scaled structures in the universe. Exploration of light and gravity to understand the properties and evolution of stars, neutron stars, black holes, galaxies, and the universe's structures and changes. CSU/UC

ASTR 110H

Honors Introduction to Stars and Galaxies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Surveys the development of astronomy, current research and observations of stars, galaxies, and large-scaled structures in the universe. Exploration of light and gravity to understand the properties and evolution of stars, neutron stars, black holes, galaxies, and the universe structures and changes. CSU/UC

ASTR 140

Astronomy Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: ASTR 109; ASTR 110 or ASTR 110H with a minimum grade of C.

Utilizes experimental techniques to explore and comprehend properties and motions of celestial objects. Basic naked-eye, binocular, and small telescope observing techniques will be introduced. Field trips to local planetaria and dark sky locations may be included. CSU/UC

ASTR 198

Topics

Unit(s): 0.5

Specialized courses on topics in astronomy. CSU/UC

AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO 101A

Automotive Mechanical Operation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on function, operation, and design of the mechanical aspects of modern automobiles. Engine repair, manual and automatic transmissions, brakes, and suspension operation and design will be covered. The course is designed for students seeking general knowledge of automotive mechanical systems and employment in a non- technical field. CSU

AUTO 101B

Automotive Electrical Operation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on the function and operation of the electrical aspects of modern automobiles. Electrical theory and application, engine sensors, computer systems, and emission control devices will be covered. Also, air conditioning, heating, and electrical accessories will be examined. This course is intended for students seeking general automotive knowledge and employment in a non-technical automotive related field. CSU

AUTO 102

Auto Essentials

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

Introduction to the primary automotive systems used on modern vehicles. Theory, parts nomenclature, and description of system operation are emphasized. CSU

AUTO 106

Automotive Maintenance

Unit(s): 4.0 Class Hours: 54.0 Lecture, 72.0 Lab total.

Introduces basic maintenance procedures in the areas of engines, chassis, and electrical systems. This course is recommended for consumers as well as students interested in entering the automotive repair field. Safe and correct hands-on use of tools and equipment by students is emphasized. Students must furnish approved safety glasses. CSU

AUTO 122

Electronics Fundamentals

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Introduction to the basic operating principles of electrical and electronic devices used in modern vehicles. Hands-on digital multimeter testing is highlighted. Safe and correct use of tools and equipment by students will be emphasized. Students must furnish approved safety glasses. (Same as Diesel 122) CSU

AUTO 124

Electrical Systems

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Theory, operation, diagnosis, and maintenance of automotive engine and body electrical systems. Use of wiring diagrams is highlighted. Safe and correct use of tools and equipment in the shop by students is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A6 (Electrical/ Electronics) ASE certification exam. CSU

AUTO 132

Engine Performance

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Engine performance procedures including fuel, ignition, oscilloscope, emission control, and computer systems. Hands-on testing and diagnosis is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A8 (Engine Performance) ASE certification exam. CSU

AUTO 143

Automatic Transmission Service

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

Theory, operation, diagnosis, and service procedures of automatic transmissions and transaxles. Hydraulic systems are highlighted. Hands-on testing and service procedures are emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A2 (Automatic Transmission/Transaxles) ASE certification exam. CSU

AUTO 144

Manual Drive Train and Axles

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

Theory, operation, diagnosis, and service of manual transmissions, transaxles, clutches, drive shafts, and differentials. This course also covers minor service of automatic transmissions. Safe and correct hands-on procedures are emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A3 (Manual Drive Train) ASE certification exam. CSU

AUTO 145

Advanced Drive Train Systems

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

This course covers fully electronic controlled automatic transmission/ transaxle diagnosis and service. Emphasis is placed on specialized diagnostic equipment and safe hands-on practice. Diagnosis of electronic sensors is highlighted. This course assists the student in preparation for the A2 (Automatic Transmission/Transaxles) and A3 (Manual Drive Train) ASE certification exams. CSU

AUTO 153

Brakes

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Theory of operation, diagnosis, and service of drum, disc, and anti-lock brake systems used on modern vehicles. Safe and correct hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A5 (Brakes) ASE certification exam. CSU

AUTO 154

Steering and Suspension Service

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Theory of operation, diagnosis, and service of the steering and suspension systems used on modern vehicles. Wheel alignment procedures are highlighted. Hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A4 (Steering and Suspension) ASE certification exam. CSU

AUTO 161

Automotive Air Conditioning, Heating and Ventilation Systems

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

The operation and service of modern automotive air conditioning systems. Practical application of air conditioning theory is presented to enable problem solving. Heating, ventilation, and electronic control systems are also included. Safe hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A7 (Air Conditioning and Heating) ASE certification exam. EPA 609 certification is an integral part of this course. CSU

AUTO 176

Engine Repair

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

This course deals with teardown, assembly, and repair of modern automotive engines. Accurate engine measurement is highlighted. Hands-on practice of engine repair skills is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A1 (Engine Repair) ASE certification exam. CSU

AUTO 185

Bureau of Automotive Repair (BAR) Smog Inspector Training I

Unit(s): 5.0 Class Hours: 81.0 Lecture, 27.0 Lab total.

This is the Bureau of Automotive Repair (B.A.R.) certified Basic Clean Air Car Course. This course fulfills one of the requirements to take the State Smog Inspector License Exam. The course is designed for students seeking to obtain a California State Smog License and will stay current with B.A.R. guidelines as new regulations and/or technologies are introduced. This course is intended for individuals with some automotive experience or education. (Pass/No Pass Only) CSU

AUTO 186

Bureau of Automotive Repair (BAR) Smog Inspector Training II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

This is the Bureau of Automotive Repair (B.A.R.) certified Smog Check Inspector Level II course. This course fulfills one of the requirements to take the State Smog Technician Exam. The course is designed for students seeking to obtain a California State Smog License and will stay current with B.A.R. guidelines as new regulations and/or technologies are introduced. This course is intended for individuals with some automotive experience or education. (Pass/No Pass Only) CSU

AUTO 187

BAR Specified Diagnostic and Repair

Unit(s): 5.0 Class Hours: 72.0 Lecture, 54.0 Lab total.

Bureau of Automotive Repair recognized diagnostic and repair course. This course fulfills one of the required courses the student needs to take the State Smog Technician Exam. The course is designed for students seeking to obtain a California State Smog License and will stay current with B.A.R. guidelines as new regulations and/or technologies are introduced. This course is intended for individuals with some automotive experience or education. (Pass/No Pass Only) CSU

AUTO 190

Automotive Manufacturer Specific I

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Recommended Preparation: (AUTO 102 or AUTO 106); AUTO 122 with a minimum grade of C.

This course will allow students will gain experience working with specific engine and powertrain related systems from different vehicle manufacturers. The course is intended for students seeking employment at a new car dealership as a service technician. The course will also focus on vehicle manufacturer specific training from different vehicle makes. Students will choose to focus on Subaru, Fiat-Chrysler, or other vehicle manufacturers. CSU

AUTO 191

Automotive Manufacturer Specific II

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: (AUTO 102 or AUTO 106); AUTO 122 with a minimum grade of C.

In this course students will gain experience working with and diagnosing specific drivetrain and electrical systems from different vehicle manufacturers. This course is intended for students seeking employment at a new car dealership as a service technician. The course will also focus on vehicle manufacturer specific training from different vehicle makes. Students will choose to focus on Subaru, Fiat-Chrysler, or other vehicle manufacturers. CSU

AUTO 200

Automotive Service Advising

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will cover the career, expectations, and duties of an automotive service advisor. Topics include customer service, the three Cs, completing repair order procedures, writing skills, and effective communication with internal and external customers. CSU

AUTO 201

Automotive Service Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: BUS 100 with a minimum grade of C.

This course will focus on management skills of a service and repair facility, including new car dealerships and independent shops. Employee relations, legal requirements, policies and procedures, customer relations, and working as a manager/supervisor will be emphasized in the course. Working with vendors and suppliers will also be covered. CSU

AUTO 202

Automotive Independent Shop Ownership

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: BUS 100 with a minimum grade of C.

This course will cover the business, logistics, equipment needs, hiring process, and customer service requirements to own and operate an independent automotive service and repair facility. Operating a safe working environment and maintaining a productive facility will be emphasized. CSU

AUTO 218

Advanced Engine Performance

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

Recommended Preparation: AUTO 132; AUTO 122 with a minimum grade of C.

This course will focus on advanced level engine performance procedures, including ignition, fuel, oscilloscope, emissions, and computer systems. Hands-on testing and diagnosis will be emphasized. Students must furnish their own safety glasses. The course assists students in preparation of the L1 (Advanced Level Engine Performance) ASE certification exam. CSU

AUTO 260

Introduction to Electric Vehicles

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Recommended Preparation: AUTO 122 with a minimum grade of C.

This course will explore the function, operation, and design of electric vehicles. The course will also focus on safe practices and procedures when working with high voltage systems.

Students will build a purpose-built electric vehicle in the course and study current electric vehicle manufacturers. High voltage systems will be examined, along with battery designs, AC and DC power motors, and electrical inverter/converters. CSU

AUTO 280

Computer Control and OBD-2 Foundations

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

The operation and diagnosis of automotive computer controlled systems. Sensors, actuators, and networks are discussed. The key segments of OBD-2 are also presented. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

AUTO 281

Fuel Injection Systems

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course covers the theory, operation, and diagnosis of import and domestic fuel injection systems. Fuel supply, delivery, and control are emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

AUTO 282

Automotive Sensors

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course covers the function and testing of computerized engine sensors used on modern vehicles. The use of meters and test equipment will be emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

AUTO 283

Diagnostic Test Equipment

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course covers the use of automotive diagnostic equipment such as scan tools and hand held lab scopes. Test procedures and diagnostics will be emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

AUTO 284

OBD-2 Diagnosis and Networks

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course will present problem solving for code and non-code concerns on OBD-2 (On Board Diagnostics) vehicles. This course also covers the function and troubleshooting of automotive networks. CAN systems are emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

AUTO 285

Hybrid Vehicles

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

This course will discuss safety, operation, and basic service of modern hybrid vehicles. Safety and special tools for dealing with high voltage are emphasized. System function and components are highlighted. Electric vehicles are introduced. CSU

AUTO 287

Alternative Fuels

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

This course introduces the student to the various types of alternative fuels used in modern vehicles. Safety and operation are highlighted. Compressed Natural Gas (CNG) training is emphasized. LPG, LNG, Bio-diesel, Ethanol, and Hydrogen are also covered. CSU

AUTO 288

Diesel Engines: Light-Medium Duty Systems

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

This course will introduce the applications of modern light and medium duty diesel engines. German as well as domestic engine systems will be covered, including common rail fuel injection, turbo chargers, and diesel emission systems. CSU

BANKING (BANK)

BANK 010

Training for Entry Level Bankers

Formerly: Teller Training for Financial Institutions

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Course provides prospective bank employees with a broad overview of financial institutions and basic knowledge of teller techniques including bank transactions and customer service.

BIOLOGY (BIOL)

BIOL 098

Topics

Unit(s): 0.5-4.0 Class Hours: 9.0-72.0 Lecture total.

Specialized courses on topics related to the needs of students in biology.

BIOL 109

Fundamentals of Biology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Principles of biology stressing the relationship of all organisms from anatomical, physiological, and ecological points of view. Includes cell machinery, genetics, reproduction, embryology, animal behavior, botany, ecology, evolution, and human physiology. Concurrent enrollment in Biology 109L recommended. Designed for non-biology majors. CSU/UC

BIOL 109H

Honors Fundamentals of Biology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Traditional Biology, enriched by extensive instructor-prepared study guides for each subject area of curriculum. Additional enhancement by outside reading suggestions and optional student reports. Class participation and discussion is strongly encouraged, as are questions on current reports and news in the popular media and scientific sources. Information will be expanded by reference to research observations and by appropriate references to classical and current literature. Emphasis is on analysis of pertinent topics using critical reading and interpretation skills. Concurrent enrollment in Biology 109L is recommended. Designed for non-biology majors. CSU/UC

BIOL 109L

Fundamentals of Biology Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: BIOL 109 or BIOL 109H with a minimum grade of C or concurrent enrollment.

Laboratory experiments that illustrate important biological concepts at all levels of organization, from molecules and cells, to organisms, populations, communities, and ecosystems. Content complements Biology 109/109H lecture material. Fieldtrip required. CSU/UC

BIOL 111

Marine Biology

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

This course covers basic concepts of marine ecosystems including oceanographic principles, ecology, and a survey of marine habitats and diversity of marine organisms. CSU/UC

BIOL 115

Concepts in Biology for Educators

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

An investigation in the basic principles of Biology and Science with content appropriate for future multiple-subject teachers and secondary through high school. The course material is presented within the context of the human experience and includes cell biology, physiology, genetics, evolution, ecology, animal behavior, and the interaction of humans with the environment. The course is taught from an inquiry-based strategy using active learning.

CSU/UC

BIOL 127

Ecology

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to the basic principles of ecology. Study of ecosystems, biomes, and the relationships of plants and animals in the natural world. This is a field study course and includes overnight camping. CSU

BIOL 128

Natural History of the California Coast

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

An ecological study of plant and animal life of the southern and central California coast. This is a field study course and includes overnight camping. CSU

BIOL 129

Ecology of Southern California

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Identification and study of the plants and animals of the ocean, mountain and desert regions of Southern California with emphasis on the organisms' relationship to their environment. This is a field study course and includes overnight camping. CSU/UC

BIOL 131

Natural History of the Southwest

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An ecological study of mountain, canyon, and desert ecosystems of the Southwestern United States. Animal and plant identification, geology, and environmental problems will be emphasized. This is a field study course and includes overnight camping. CSU

BIOL 132

Natural History of Death Valley

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Natural history of Death Valley emphasizing the biology of the plants and animals, their ecology, adaptations and evolutionary history, as well as the history of environmental change and human activities. This is a field study course and includes overnight camping. CSU

BIOL 133

Desert Biology

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Study of desert organisms, their adaptions to arid conditions, their evolution, identification and ecology, and the impact of human activities on desert organisms, communities, and ecosystems. This is a field study course and includes overnight camping. CSU

BIOL 139

Health Microbiology

Unit(s): 4.0 Class Hours: 48.0 Lecture, 64.0 Lab total.

Presents practical and theoretical aspects of medical microbiology to meet the needs of those in allied health professions. Provides basic knowledge of the microbial world by covering diversity, structure, metabolic and genetic characteristics, cultivation and control. Emphasis is placed on human-microbe interactions especially infectious diseases.

Laboratory deals with identification, growth, and control of microorganisms. Field trips may be required. CSU/UC

BIOL 149

Human Anatomy and Physiology

Unit(s): 4.0 Class Hours: 54.0 Lecture, 48.0 Lab total.

Structural organization of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems, from cellular to organ system levels of organization. This course is primarily intended for nursing, allied health, kinesiology, and other health related majors. CSU/UC

BIOL 169

Natural History of the Sierra Nevadas

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

A field study of the ecology, geology, and history of the Sierra Nevada mountains. Animal and plant studies, environmental problems, and wilderness preservation will be emphasized. This is a field study course and includes overnight camping. CSU

BIOL 177

Human Genetics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in human genetics which explores basic principles, patterns of inheritance, gene structure, function and regulation, current advances in genetics and gene technology, as well as social and ethical issues in contemporary genetics. CSU/UC

BIOL 190 (C-ID BIOT 101X = BIOL 190 + BIOL 190L)

Introduction to Biotechnology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is a general examination of biology as it relates to the field of biotechnology. Topics include the fundamental chemical processes common in prokaryotic and eukaryotic biology, chemistry of bio-molecules (proteins, enzymes, nucleic acids and lipids), cellular and molecular biology, basic immunology, and classical and molecular genetics with an emphasis on gene expression and genetic engineering. CSU/UC

BIOL 190L (C-ID BIOT 101X = BIOL 190 + BIOL 190L)

Introductory Biotech Lab

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: BIOL 190 with a minimum grade of C or concurrent enrollment.

This laboratory is a general examination of biology as it relates to the field of biotechnology. The laboratory addresses basic skills and techniques common to the biotechnology industry. Topics include the measurement of activity and quantity of proteins, growth and manipulation of bacteria, genetic engineering and antibody methods. This course is intended as a laboratory class for students majoring in applied biology and as a general education laboratory option for all students. CSU/UC

BIOL 191

Biotech A: Basic Skills

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

This course prepares students for entry-level work in the biotechnology industry by emphasizing the core concepts needed to work effectively in a bioscience laboratory. Topics include laboratory math, basic chemistry of buffers, healthy and safety, metrology and quality control. This course introduces students to standard biotechnology laboratory skills including laboratory measurement, maintenance of an industry standard notebook, preparation and sterilization of solutions, reagents and media, proper use and maintenance of laboratory equipment, adherence to quality control protocols and lab safety regulations, data collection and evaluation, basic separation methods, aseptic technique and documentation. CSU

BIOL 192

Biotech B: Proteins

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: BIOL 191 with a minimum grade of C.

This course is an introduction to protein purification techniques including sample preparation, protein separation and purification, column chromatography, large- scale recovery, and use of assays for recovery analysis. It provides hands-on training with chromatography systems and assays used in industry and research laboratories. Application of current Good Manufacturing Process (cGMP), Good Laboratory Practice (GLP), and Standard Operating Procedures (SOP's) in relation to these techniques will be addressed. This course covers methods utilized for eukaryotic cell culture protein purification. CSU

BIOL 193 (C-ID BIOT 150X = BIOL 191 + BIOL 193)

Biotech C: Nucleic Acids

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: BIOL 191 with a minimum grade of C.

This course introduces the fundamental skills in applied biotechnology focusing on the upstream research and development process. Skills include maintenance of an industry standard notebook; preparation and sterilization of solutions, reagents and media; utilization of good aseptic technique; proper use and maintenance of laboratory equipment; adherence to quality control protocols, lab safety regulations; biomolecules, cell structure, gene expression, molecular techniques including DNA/RNA extraction and purification, bioinformatics, polymerase chain reaction, electrophoresis, DNA sequencing, recombinant DNA technology, DNA cloning, fluoresence in situ hybridization, and Southern blot analysis, and in vitro transcription. Compliance with industry standards and regulations will be incorporated into course procedures. CSU

BIOL 194 (C-ID BIOT 210X)

Quality and Regulatory Compliance in Biosciences

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will cover quality assurance and regulatory compliance for the bioscience

industries. Topics will span quality control and Federal Drug Administration (FDA) regulations for the biotechnology, biopharmaceutical, biomedical device, and food industries. Theories and application of quality assurance and quality control will be presented and several different quality systems will be discussed such as cGXP (current Good Practices), ISO9000 (International Standards Organization), Six Sigma and Lean. CSU

BIOL 195

Biotech: QC/QA Microbiology

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: BIOL 229 with a minimum grade of C.

This course will cover the skills necessary to work in a regulated quality control microbiology laboratory. CSU

BIOL 197

STEM Internship/Work Experience

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

Prerequisite: Successful completion of 10 units from Biotech course series.

Supervised paid or volunteer experience in student's major including new or expanded responsibilities. 75 hours of paid work or 60 hours of unpaid work equals one unit. Course may be taken 4 times for a maximum of 16 units of occupational cooperative work experience credit. (Pass/No Pass Only) CSU

BIOL 198

Topics

Unit(s): 0.5-4.0 Class Hours: 9.0-72.0 Lecture total.

Specialized courses on topics related to the needs of students in biology. CSU

BIOL 199

Independent Study

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

Prerequisite: Enrollment in at least one other class at either Santa Ana College or Santiago Canyon College. And Must show evidence of competence in their academic major and in the area in which they propose to conduct independent study.

Under faculty direction, students can increase their knowledge in specific areas of biology through directed field experience, research, readings and independent study. Students can also develop laboratory skills and competencies. Divisional approval required. CSU

BIOL 200

Environment of Man

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A biological and physical science introduction to environmental problems such as energy, resources, pollution, land use, population and food, including economic and political factors. A natural science elective. (Same as Environmental Studies 200.) CSU/UC

BIOL 202

Cell Culture Techniques

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: BIOL 191 with a minimum grade of C.

Students will learn eukaryotic cell culture techniques that include working under aseptic conditions, sterile techniques, media preparation, quantification and passage of cell lines. Laboratory experience prepares students for work in industry. CSU

BIOL 211 (C-ID BIOL 190)

Cellular and Molecular Biology

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: MATH 084; CHEM 219 or CHEM 219H with a minimum grade of C.

An investigation into the molecular and cellular basis of life, including the evolution of cells, cell structure and function, energy and information flow, cellular reproduction, genetics, and the molecular basis of inheritance. Required of majors in biology, medicine, forestry, and agriculture. This course is a prerequisite for Biology 212 and Biology 214. CSU/UC

BIOL 212 (C-ID BIOL 130S = BIOL 212 + BIOL 214)

Animal Diversity and Ecology

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: BIOL 211 with a minimum grade of C.

A study of ecological principles and relationships between animal diversity and ecosystems. Habitat, populations, ecological interactions, and environmental influences are stressed while surveying animal diversity and addressing structure, function, behavior, and adaptation of major taxonomic groups. Required of majors in biology, medicine, forestry and agriculture. Field trips required. CSU/UC

BIOL 214 (C-ID BIOL 130S = BIOL 212 + BIOL 214)

Plant Diversity and Evolution

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: BIOL 211 with a minimum grade of C.

Principles and processes of evolution leading to biodiversity. Survey of the organisms, viruses, prokaryotes, fungi, algae, and plants with emphasis on evolutionary adaptations of the anatomy, physiology, and life cycles of these organisms. Field trips required. CSU/UC

BIOL 217

Pathophysiology

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: BIOL 149; BIOL 239 or BIOL 249 with a minimum grade of C.

Covers dynamic aspects of human disease. Links sciences of anatomy, physiology and biochemistry with their application to clinical practice for health professionals. CSU

BIOL 229

General Microbiology

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: BIOL 109 or BIOL 109H; BIOL 109L or BIOL 190; BIOL 190L or BIOL 139 or BIOL 149 or BIOL 211 or BIOL 239 or BIOL 249 or CHEM 119 or CHEM 209 with a minimum grade of C.

Introduction to microorganisms, their classification, structure, biochemistry, growth, control, and interactions with other organisms and the environment. Designed for biology, preprofessional, and prenursing (BSN) majors. CSU/UC

BIOL 239 (C-ID BIOL 110B)

General Human Anatomy

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Structure of the human body. Systems, organs, and tissues are studied from human skeletons, models, charts, slides and various electronic programs. Laboratory includes the dissection of a cat and periodic demonstrations of a prosected cadaver as available. CSU/UC

BIOL 249 (C-ID BIOL 120B)

Human Physiology

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: BIOL 239 with a minimum grade of C.

Microscopic, macroscopic, and dynamic view of the human physiological processes. The lecture portion includes a thorough consideration of both "cell and systems" physiology. Laboratory work includes the use of techniques used in basic research, an introduction to the use of standard medical equipment, and the performance of medical laboratory tests. Non- invasive experiments are performed on students enrolled in the class. CSU/UC

BIOL 259

Environmental Biology

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Introduction to Environmental Biology. Includes study of ecosystems, population dynamics, classification, diversity of plant and animal species, effects of pollutants at both the cellular and organismal levels, and principles of ecology (Same as Environmental Studies 259). CSU/UC

BIOL 290

Biochemistry and Molecular Biology

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: BIOL 211; CHEM 209 with a minimum grade of C.

Introduction to biochemistry and molecular biology. Included are discussions of biological macromolecules, energy production, metabolic pathways and regulation, genetic code, genomics, DNA replication, transcription and RNA processing, translation, and gene regulation. Laboratory activities will include use of visible and UV spectroscopy, chromatography, cell fractionation, ultracentrifugation, protein purification, electrophoresis, and recombinant DNA methods. This course is designed for biology majors, health pre-professionals, and biotechnology majors. CSU/UC

BLACK STUDIES (BLST)

BLST 101

Introduction to African American Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the field of African American Studies. An interdisciplinary approach will be employed to study the various experiences of African Americans and their contributions to American society and culture. The course will cover historical and contemporary issues including African origins, the development of African American culture, the struggles of the African American family, African American political life, and the socio economic empowerment of African American people in the United States. CSU/UC

BUSINESS (BUS)

BUS 080

Business Mathematics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to enable students to learn and apply mathematics skills in business including review of fractions, decimals, percents, banking, discounts, markups, payroll, interest calculation, installment buying, mortgages, depreciation, taxes, insurance, stocks, bonds, and mutual funds.

BUS 100 (BUS 110)

Fundamentals of Business

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the basic fundamentals of business. A survey of marketing, management, production, accounting, finance, and economics and how they interrelate in the business environment. CSU/UC

BUS 101 (C-ID BUS 125)

Business Law

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. Intended for transfer to Cal State Northridge. All others see Law 105 and Bus 105. Check with counselor for appropriate class. May only receive credit for Bus 101, Bus 105 or Law 105. CSU/UC

BUS 103

Cooperative Work Experience- Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

BUS 104

Cooperative Work Experience-General

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field not related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un- paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

BUS 105 (C-ID BUS 120)

Legal Environment of Business

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. Intended for transfer to most Cal State including Cal State Fullerton. Check with counselor for appropriate class. May only receive credit for Bus 101, Bus 105 or Law 105. CSU/UC

BUS 106

Culture and International Business - Kiss, Bow or Shake Hands

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to different cultures and their effects on international business. Analysis of cross-cultural attitudes towards management, status, rules, relationships, motivating employees, and negotiation. CSU

BUS 110

Export Pricing, Quotations and Terms of Trade

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to respond to trade inquiries. Learn international trade terms of sale, international pricing and supply chain management. Learn how to calculate landed costs and export pricing. CSU

BUS 111

International Business Documentation - Beginning

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to create and issue international documents used in selling or buying products. Includes the creation and use of actual documents used in international business. CSU

BUS 113

International Transportation

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to ship products internationally and develop a transportation strategy. Includes

transportation terminology, the role of the freight forwarder, transportation documentation, freight cost calculations, major ports of the world, and distribution issues. CSU

BUS 114

International Documentation and Supply Chain Management

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

International documents for product inspection, health/agricultural registrations, and hazardous materials shipments. Utilizes actual documents, software, and resources necessary to effectively complete documentation. Introduces the need for supply chain management and inventory control. CSU

BUS 115

Global Shipping and Logistics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to respond to international trade inquiries, understand international trade terms of sale for import and export, and how to calculate landed costs. Learn how to create and issue import and export documents used in selling or buying products globally. Includes the creation and use of actual documents used in global trade. Learn how to ship products internationally and develop a transportation strategy. Learn about transportation terminology, the role of the freight forwarder, transportation documentation, freight cost calculations, major ports of the world, and distribution methods. Create documents for product inspection, health/agricultural registrations, and hazardous materials shipments. Utilize actual documents, software, and resources necessary to effectively complete documentation required for international trade. Get introduced to supply chain management and inventory control. CSU

BUS 116

Global Marketing: Selling Around the World

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to adapt marketing techniques to international markets, how to develop marketing strategies, and how to target markets based on the cultural, political and economic environments. Learn how to create forecasts and budgets for international markets. (Same as Marketing 116). CSU

BUS 117

Global Commerce and Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about financial mechanisms and laws regulating international distribution. Learn about international limited liability companies, and foreign direct investment. Learn how countries join together to create trade. Includes NAFTA/USMCA, GATT, the EU and other trade agreements around the world. Explore management and law in different legal environments as well as U.S. export regulations. CSU

BUS 118

Importing: Global Sourcing and Markets

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how importing works. Evaluate the potential of an import business. Contact vendors and source products. Determine import classification, tariffs and taxes and calculate landed costs to import into the U.S. Understand import regulations. CSU

BUS 119

Doing Business in Latin America and Asia

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn about the advantages of growing your business by doing business in other regions around the world. Learn about the cultural, linguistic, structural and legal differences in order to be successful in these countries. Learn about the specifics of doing business in Latin American and Asian regions and countries including but not limited to Mexico, Vietnam, China, Central America, Brazil, Chile, and Japan. CSU

BUS 120

Principles of Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Principles, methods, and procedures essential to the successful management of human and financial resources. Planning, decision making, staffing, directing, motivating, leading, communicating, controlling and the application of managerial skills (Same as Management 120). CSU

BUS 121

Human Relations and Organizational Behavior

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The role of the manager and management's relationship to employees. Includes the application of motivational theories, communications, leadership, and organizational structure (Same as Management 121). CSU

BUS 125

Introduction to International Business

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey course previewing international marketing, finance, law, and logistics. Includes how a company decides to go global and how products are made, transported, and sold around the world. CSU

BUS 127

Introduction to E-Commerce

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Electronic commerce from a managerial perspective focusing on the retailing, business-to-business, and service industries. Topics include e-commerce infrastructure, intranets and extranets, electronic payment systems, marketing research, advertising, e-commerce strategies, and privacy issues. (Same as Marketing 127). CSU

BUS 130

Personal Finance

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MATH N48 or placement into Mathematics 083 according to the Santa Ana College Mathematics Department's placement standards.

This course is designed to empower individuals with various tools to manage their money and make sound lifelong financial decisions. Topics include financial planning, income and expense management, investment analysis, retirement planning, consumerism, insurance, estate planning, home ownership and credit management. This course uses financial, tax, and mathematical calculations. Students will take a hands-on approach to such learning and skill development with problem-solving assignments and projects that require them to explain information presented in tax forms and financial statements. They will also obtain the knowledge and skills required to convert financial information into portrayals that contribute to an understanding of present and future personal and family financial needs. Students will also be provided with opportunities to analyze and synthesize on documents and reports. They will develop the logical reasoning skills needed by informed and productive citizens. Moreover, instructors will (a) provide student-centered activity-based instruction, (b) emphasize the conceptual understanding and skills of mathematics and quantitative reasoning, and (c) facilitate the development of competence and confidence in problem-solving abilities. CSU/UC

BUS 140

Principles of Finance

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to corporate financial management and the functioning of global financial markets. Includes financial planning and analysis, working capital management, capital budgeting, time value of money, risk analysis, capital markets, and long term financing. CSU

BUS 141

The Globalization of Marketing

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to adapt marketing techniques to international markets, how to develop marketing strategies, and how to target markets based on the cultural, political and economic environments. Learn how to create forecasts and budgets for international markets. CSU

BUS 142

International Market Research and Planning

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

How to research international markets for opportunities using the Internet, government and private resources as well as in-market surveys. Includes the development of international marketing strategies and the analysis of domestic and international markets for import and export opportunities. CSU

BUS 143

Packaging, Pricing and Promoting Products/Services for Export

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Understand international market requirements. Learn to adapt products and services to meet international market needs. Create competitive price structures. Implement exciting promotion and advertising plans. Learn how to entice international customers to buy U.S. products and services. CSU

BUS 145

Channels of Distribution in International Markets

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn alternate methods for distributing products in international markets. Learn how to use distributors and agents. Learn channels of distribution for different industries and different countries. Adapt distribution strategies to maintain product quality, positioning, and competitive price structure. CSU

BUS 147

International Commercial Agreements and Distribution Law

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about contracts with foreign sales representatives and laws regulating international distribution. Learn about international limited liability companies and foreign direct investment laws. (Same as Paralegal 147.) CSU

BUS 148

International Intellectual Property Law

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn international intellectual property law- patents, copyrights, trademarks, and trade secrets. Learn international treaties relating to intellectual property rights. Learn technology licensing agreements and international franchising. (Same as Paralegal 148). CSU

BUS 149

The Law of Global Commerce

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

How countries join together to create trade. Includes NAFTA, GATT, the EU and other trade agreements around the world. Explore law in different legal systems as well as U.S. export regulations. (Same as Paralegal 149.) CSU

BUS 150 (C-ID ITIS 120, C-ID BUS 140)

Introduction to Information Systems and Applications

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to computer concepts and management information systems. Application software will be used to solve business problems. CSU/UC

BUS 160

Introduction to Stock and Bond Investments

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory course in investment decision- making. Topics covered are types of securities, securities markets, stocks, bonds, options, mutual funds, value analysis, international investing, portfolio management, and financial planning. CSU

BUS 163

International Methods of Payment and Letters of Credit

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Analyze international methods of payment to determine risks and benefits. Learn how to initiate and utilize a letter of credit and its role in international transactions. Learn how to check customer credit and assign payment terms. CSU

BUS 164

Alternative Financing Techniques for International Trade

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Explore the alternative financing techniques of bartering, countertrade, and forfeiting for medium-term financing. Learn how the foreign exchange market operates and the risk and management techniques of foreign exchange. CSU

BUS 165

International Trade Finance and Insurance

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Borrowing based on specific import/export transactions-documentary bankers' acceptances, clean bankers' acceptance financing, trade acceptance, borrowing against receivables, sale of receivables, and factoring. Learn to assess risks, hedge risks and insure international trade transactions. Discover Eximbank. CSU

BUS 166

Financing an Import/Export Business

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn where and how to obtain financing to operate an international business. Discover domestic and international financing and lending sources, commercial banks and brokers, non-bank lenders, government, and quasi-government lenders. Understand government finance assistance organizations. CSU

BUS 170

Principles of Small Business Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Practical business skills needed to start and operate a small business. Includes information on risk management, site location, legal aspects, financing, budgeting, merchandising, promotion, and management techniques. CSU

BUS 180

Finding and Evaluating Products for Import

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Evaluate the potential of an import business. Contact venders and source products. Determine import classification, tariffs and taxes and calculate landed costs to import into the U.S. CSU

BUS 182

Classifying Imports and Clearing US Customs

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn to classify products being imported into the U.S. using the Harmonized Tariff Schedule (HTS). Identify applicable duty rates and quotas for products. Learn how the operations and U.S. Customs programs have changed since 9/11/2001. CSU

BUS 222 (BUS 115)

Business Writing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Overview of oral and written communication skills used in business. Emphasizes guidelines for improving writing and speaking skills, common solutions to common communication problems, ethical issues facing business communicators today, instructions on how to identify areas of legal vulnerability, and tested techniques for communicating successfully in today's high-tech, international business environment. CSU

BUSINESS APPLICATIONS (BA)

BA 017

Business Writing Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Comprehensive, up-to-date business usage of grammar including punctuation, capitalization, number style, spelling, vocabulary development, and other effective business writing skills. Designed to improve professional written communication including letters, reports, proposals, and email.

BA 018

Office Technology & Professional Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Develop and improve professional business skills using current standards and technology including job search and advancement, employment readiness, leadership skills, customer service, effective written and verbal communication, and office management. Instruction includes office technology, business ethics, decision-making skills, travel arrangements, effective meetings, time and stress management, and teamwork skills.

BA 035

Computer Fundamentals

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Learn current computer technology, understand hardware components, and software applications using current industry standards. Topics also include Internet, virus protection, networking, cloud computing, and WiFi. Helpful tips to make using the computer easier, faster and more efficient. Course is designed for beginner and experienced users needing to update business technology knowledge and skills.

BA 051

Introduction to Spanish Bilingual Interpreting

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory course in interpretation/ translation in English/ Spanish designed to introduce students to the different career fields that employ bilingual skills such as the business, legal, medical and educational professions. Written translation and oral interpretation skills will be utilized and developed in both English and Spanish. Fluency in Spanish and English is recommended.

BA 056

Business Interpretation and Translation- Spanish/English

Formerly: General Foundation for Bilingual Business Interpretation-Spanish/English

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in interpretation and translation designed for employment certification of interpreters for business and government. Fluency in Spanish and English strongly recommended.

BA 057

Medical Interpretation and Translation- Spanish/English

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in medical interpretation/translation designed for employment certification of interpreters for governmental and private health services providers. Fluency in Spanish and English strongly recommended.

BA 058

Legal Interpretation and Translation- Spanish/English

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in legal interpretation/translation designed for employment certification of interpreters for government and private legal businesses. Fluency in Spanish and English strongly recommended. Same as Law 058. Field trips may be required.

BA 110

Computer Keyboarding Skills

Unit(s): 0.5 Class Hours: 27.0 Lab total.

This course is the first step in learning proper keyboarding techniques with accuracy using correct hand and finger positioning. Students will follow step-by-step instructions for all alphabet, punctuation, enter/return, and capitalization using shift keys. Typing correctly without errors will provide the skills necessary to develop speed with accuracy. CSU

BA 115

Computer Keyboarding Speed and Accuracy Development

Unit(s): 0.5 Class Hours: 27.0 Lab total.

After the basic keyboarding skills have been mastered, the most important next step is to take this course to develop and increase speed with accuracy. Students will use drills and timed writing tests to develop speed and accuracy to meet current business employment typing requirements and make the use of business technology faster and easier. Typing skills with a minimum 20 words per minute (WPM) using proper techniques or completion of BA 110 recommended. CSU

BA 125

Microsoft Word

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn the most efficient methods of creating, editing, formatting, and printing professional business documents faster and easier. Beginners as well as experienced Word users will benefit from learning proper file setup and shortcuts using current business standards. Students will master basic skills and learn advanced features and techniques to produce a wide variety of documents including resumes, newsletters, and brochures. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

BA 126

Microsoft Outlook

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how business professionals use all the features in Microsoft Outlook for information management to improve communication and increase productivity. Topics include proper email usage, create meeting invites, schedule appointments, manage contacts, organize emails, manage calendars, email security, customize settings, and create backups. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

BA 147

Introduction to Windows

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

This course is designed for beginning and experienced computer users needing to update business technology skills in using Windows. Customize the Windows environment using the latest features including Start menu tiles, settings, task bar, pin apps, Cortana, Microsoft Edge browser, and OneNote. Learn File Explorer to manage files and folders more efficiently and use OneDrive for Cloud storage. CSU

BA 153

Social Media Apps for Employment and Business

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Boost your career opportunities by learning the latest trends in using social media applications. Learn how to use all the features in the leading social media apps to find employment, promote a business, and network with professionals. Tips on how to improve the quality and effectiveness of your social media presence. Learn proactive and professional techniques in handling reviewer comments. Live stream videos on social media including from drones. Hands-on instruction in social media apps including LinkedIn, Facebook, Instagram, Twitter, YouTube, Yelp, Google, Pinterest, and Snapchat. This course is designed for beginner and experienced social media users. CSU

BA 154

Search Engine Optimization and Web Statistics Apps for Business

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Learn how search engines work, website structure with Search Engine Optimization (SEO), competitive keyword research, writing content for search friendly websites, effective link building, and Search Engine Marketing (SEM) with Google Ads. Learn how business professionals use web statistics applications, such as Google Analytics, to analyze and track the effectiveness and performance of web pages and content to determine SEO and SEM practices. Learn how to use apps to measure site traffic, ad performance, Return on Investment (ROI), and conversions. Create an account, set up custom campaigns, and work with reports. This course is designed for beginner and experienced users. CSU

BA 155

WordPress

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

WordPress is one of the most popular Content Management Systems (CMS) used to build professional web sites and blogs for business. Learn proper software and current Search Engine Optimization (SEO) techniques to create and maintain a responsive website and blog. Understand the difference of using WordPress.com and WordPress.org. CSU

BA 158

Drones for Business

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

An introduction to using drone technology for business applications. Basic hands-on training

to learn how to fly drones safely and legally. Topics include types of drones, how different industries use drones, taking photos and videos, FAA regulations (Part 107 remote pilot license), and flight insurance. Learn about starting a drone business and related careers (real estate, public safety, construction, engineering, media, delivery, insurance). CSU

BA 160

Microsoft Publisher

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn to use Microsoft Publisher, a desktop publishing application integrating text and

images for professional page layout for business projects including brochures, flyers, newsletters, and multi-page publications. Students will learn proper techniques in creating, editing, formatting, exporting PDF, printing, and preparing a publication for distribution using current business standards. CSU

BA 163

Adobe Acrobat

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Acrobat Pro DC to create, edit, sign, secure, and optimize PDF documents for print, web, and email. Topics include create fillable PDF forms, combine and arrange multiple files, convert PDF to Microsoft Office file formats, insert multimedia (graphics, video, audio), add security (restrictions with passwords), accessibility compliance, digital signatures, review process (add comments, proofing marks), page links, bookmarks, Bates Numbering, and Redact tool for redacting text for legal and business documents. CSU

BA 164

Adobe Photoshop

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Photoshop for photo image editing to enhance print and web business and marketing projects based on current industry standards and proper techniques. Topics include graphics terminology, color correction, stock images, photo repair and restoration, proper file setup, export, masking, filters, special effects, and editing video. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry- recognized certification. CSU

BA 166

Adobe Illustrator

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Illustrator to digitally create, manipulate, and export vector-based graphics, illustrations, drawings, logos, business cards, and simple page layouts to enhance print and web business and marketing projects based on current industry standards and proper techniques. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry-recognized certification. CSU

BA 169

Adobe Dreamweaver

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Dreamweaver to create, publish, and manage professional web sites for any size screen using current business standards, technology, and proper techniques. The course includes site mapping, wireframes, search engine optimization (SEO), responsive design, HTML5, cascading style sheets (CSS), links, proper setup of web images, cross- browser testing, W3C validation, and publishing. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry-recognized certification. CSU

BA 170

Adobe InDesign

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to use Adobe InDesign to produce professional page layout projects such as brochures, newsletters, flyers, magazines, and books for print and web digital publications using current business standards and techniques. Topics include typography, paragraph and character styles, importing and linking graphics, integrating Photoshop and Illustrator files, applying color, master pages, frames, proper file setup, fixed-layout EPUB, prepress, and preflight. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry- recognized certification. CSU

BA 171

Adobe Premiere Pro

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Premiere Pro, the industry- leading video editing software to create professional video presentation projects for today's business marketing and sales via web and social media. Step-by-step, project-based lessons using proper software techniques and industry standards to effectively use this business application. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry recognized certification. CSU

BA 172

Adobe After Effects

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how businesses today use After Effects software to create professional motion graphics for corporate presentations, company profiles, and marketing projects for web and social media. Step-by-step, project-based lessons on how to create, manipulate, and optimize motion graphics to grab your audience's attention with a high-quality intro video, animated slide show, or presentations of your business. CSU

BA 173

Adobe Animate

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces multimedia design for business using Adobe Animate for web sites, banner ads, presentations, and online tutorials based on current business standards. Topics include animation, importing sound and video, ActionScript, interactivity, testing, and publishing. Knowledge of Photoshop helpful. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry recognized certification. CSU

BA 179

Introduction to Microsoft Office

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed for beginning and experienced computer users needing to build and update business technology skills in using Microsoft Office Word, Excel, and PowerPoint. Learn to use the essential features and proper techniques to create, edit, format, export PDF, and print professional business documents, spreadsheets, and presentations. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification in Word, Excel, and PowerPoint. CSU

BA 181

Everyone Can Code with Apple

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn about mobile business applications, what it takes to develop a mobile app for your business, and how to market your business app successfully. This is an introductory course in using an Apple visual-based application software to create mobile applications for Apple products such as iPhone and Apple Watch. Students will use an iPad to explore fundamental concepts using application technology to build mobile apps for a business and inspire new career possibilities in business technology. CSU

BA 182

Document Sharing and Collaboration using the Cloud and Google Apps

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how to use cloud computing technology to create, edit, and share documents, photos, forms, and videos online with other users using Google Apps, Google Drive, and Google Docs. Integrate Google Docs with Microsoft Office applications. This class is helpful for business professionals, teachers, and students. Google Classroom makes it easy for learning inside and outside of school. Other cloud computing apps will also be discussed in class such as Microsoft OneDrive and Dropbox. CSU

BA 188

Microsoft Excel

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course is designed for beginning and experienced computer users needing to build and update business technology skills to produce professional Excel worksheets. Learn proper techniques using current business standards to create, edit, format, export PDF, and print worksheets. Topics include insert images, graphics, charts, functions, and formulas. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

BA 189

Advanced Microsoft Excel

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course builds on the skills and concepts learned in the BA 188 Microsoft Excel course. Students will learn advanced functions and formulas, data analysis, PivotTables, PivotCharts, protecting and sharing workbooks, automating repetitive tasks, and other advanced Excel skills required for managing and presenting data for business. This course will prepare the student for the Microsoft Office Specialist (MOS) Excel and Excel Expert exams to earn industry recognized certifications. CSU

BA 190

Microsoft PowerPoint

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn the latest features and techniques in creating captivating business slide presentations. Beginning and experienced PowerPoint users will benefit from learning proper file setup and professional presentation tips using current business standards. Topics include slide animation, transitions, and inserting tables, charts, images, videos, and audio. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

CHEMISTRY (CHEM)

CHEM 109

Chemistry in the Community

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

The non-science major will study practical applications of chemistry and the chemical principles behind them including: the scientific method, atomic structure, molecular models, and chemical reactions. Environmental and community issues will be the focus of student centered laboratories, discussions and field trips. Group work and computer activities will be used in this cooperative learning environment. CSU/UC

CHEM 115

Concepts in Physical Sciences for Educators

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

An investigation of 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. Designed for non-science majors, concepts are introduced in lab through inquiry and further developed during discussion. Completion of Math N48 is recommended (Same as Physical Science 115). CSU/UC

CHEM 209 (C-ID CHEM 101)

Introductory Chemistry

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: MATH 080 or MATH 081 or MATH 083 or MATH 084 with a minimum grade of C.

Basic concepts of matter: atomic structure, formulas, equation writing, nomenclature, gases and kinetic theory. Emphasizes properties of solutions, and the mole concept in quantitative chemistry. Prepares students for biology and Chemistry 219. CSU/UC

CHEM 210

General, Organic and Biochemistry

Unit(s): 5.0 Class Hours: 72.0 Lecture, 54.0 Lab total.

Prerequisite: CHEM 209 with a minimum grade of C or passing grade on current chemistry placement exam and MATH 080 or MATH 081 or MATH 083 or MATH 084 with a minimum grade of C.

An introduction to the fundamental concepts of general, organic and biochemistry for majors in nursing and other allied health majors. Includes atomic structure, nuclear chemistry, bonding, solutions, acids and bases, organic nomenclature, hydrocarbons, alcohol, aldehydes, ketones, carboxylic acids, carbohydrates, proteins, lipids, nucleic acids and metabolism. CSU/UC

CHEM 219 (C-ID CHEM 110, C-ID CHEM 120S = CHEM 219 or 219H + CHEM 229)

General Chemistry

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: MATH 084; CHEM 209 or A passing score on current chemistry placement test.

Fundamental principles and concepts of chemistry including, but not limited to, atomic structure, quantum theory, periodic properties, stoichiometry, oxidation-reduction, molecular structure and bonding, gas laws, states of matter, solutions, chemical kinetics and chemical equilibrium. CSU/UC

CHEM 219H (C-ID CHEM 110; C-ID CHEM 120S = CHEM 219 or CHEM 219H + CHEM 229)

Honors General Chemistry

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND MATH 080 or MATH 081 or MATH 084 with a minimum grade of C AND CHEM 209 with a minimum grade of C or a passing score on current chemistry placement test. Transcripts required to verify prerequisite.

Enriched and intensive study, including seminar approach, of fundamental principles and concepts of chemistry including, but not limited to, atomic structure, quantum theory, periodic properties, stoichiometry, oxidation-reduction, molecular structure and bonding, gas laws, states of matter, solutions, chemical kinetics and chemical equilibrium. CSU/UC

CHEM 229 (C-ID CHEM 120S = CHEM 219 or 219H + CHEM 229)

General Chemistry and Qualitative Analysis

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: CHEM 219 with a minimum grade of C.

Continuation of Chemistry 219, including but not limited to ionic equilibrium, acid and base equilibrium, thermodynamics, electrochemistry, nuclear chemistry, organic chemistry and descriptive chemistry. CSU/UC

CHEM 249 (C-ID CHEM 150, C-ID CHEM 160S= CHEM 249+ CHEM 259)

Organic Chemistry I

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: CHEM 229 with a minimum grade of C.

This course is the first semester of a year of organic chemistry. This course will cover: structure and bonding, nomenclature, descriptive chemistry, reaction mechanisms, synthetic methods and IR spectroscopy for different functional groups including alkanes, alkenes, alkynes, alkyl halides, organometallics, alcohols, and ethers. Laboratory will include: separations/ purifications identification, and simple syntheses. CSU/UC

CHEM 259 (C-ID CHEM 160S = CHEM 249 + CHEM 259)

Organic Chemistry II

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

Prerequisite: CHEM 249 with a minimum grade of C.

This course is the second semester of a year of organic chemistry (continuation of Chemistry 249). It includes units on structure elucidation, aromatic compounds, carbonyl compounds, carboxylic acids and their derivatives, amines, and classes of biologically important compounds. More complex synthetic routes are explored. Laboratory work includes multi-step syntheses and unknown identification. Reaction mechanisms and use of spectroscopic techniques continue to be emphasized. CSU/UC

CHICANO STUDIES (CHST)

CHST 101

Introduction to Chicana/o Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the field of Chicana/o/@/x/e Studies. It is designed to acquaint students with the most significant social, political, economic, and historical aspects of the Chicana/o/@/x/e experience in the United States. As such, the course is interdisciplinary in nature and critically analyzes the societal context in which Chicanas/os/@s/xs/es have sought to maintain their culture. This course is designed to present a foundation in Chicana/o/@/x/e Studies. CSU/UC

CHILD DEVELOPMENT (CDEV)

CDEV 070

Early Childhood Education: Introductory Principles and Practices (DS3)

Unit(s): 3.0 Class Hours: 48.0 Lecture total.

Bilingual (Spanish/English) course designed to introduce Spanish speaking students who are considering a career as teachers or aides to the scope of early childhood education. This class meets state licensing requirements for aides and limited-English caregivers in Early Childhood Education programs. Suggested Preparation: Beginning ESL 2.

CDEV 107 (C-ID CDEV 100)

Child Growth and Development (DS1)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines the major physical, cognitive, social and emotional developmental milestones for children, from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. (No credit if student has taken Psychology 157.) CSU/UC

CDEV 108 (C-ID ECE 200)

Observation and Assessment for Early Learning and Development (DS3)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 107 with a minimum grade of C. Negative TB Test (must be completed before observations take place during the semester). By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play, and learning to join with families and professionals in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. CSU

CDEV 110 (C-ID CDEV 110)

Child, Family, and Community (DS2)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The processes of socialization focusing on interrelationship of family, school, and community. Examines the influence of multiple societal context. Explores the role of collaboration between family, community, and schools in supporting children's development. CSU/UC

CDEV 111A (C-ID ECE 120)

Principles and Practices of Teaching Young Children

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 108 with a minimum grade of C. Negative TB Test (must be completed before observations take place during the semester). By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

This course examines the underlying historical and theoretical principles, and the developmentally appropriate practices of early childhood programs and environments. Emphasis will be on the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative, and intellectual development for all children. The evolution of professional practices promoting advocacy, ethics, and professional identity will be explored. Students will be required to complete a minimum of 30 hours in an early childhood lab school setting. CSU

CDEV 111B (C-ID ECE 130)

Introduction to Curriculum for Young Children

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 108 with a minimum grade of C; And or concurrent enrollment in CDEV 111A. By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

This course presents an overview of knowledge and skills needed to provide developmentally appropriate curriculum for young children. Students will examine the teacher's role in supporting development, fostering the joy of learning and creativity through the essential role of play. Content areas include language/ literacy, social/emotional/ sensory learning, art, music, math, science, health/safety, and motor development. Students will be required to complete a minimum of 30 hours in an early childhood lab school setting. CSU

CDEV 112 (C-ID ECE 220)

Health, Safety, and Nutrition for Children

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

Recommended Preparation: 6 units of child development coursework.

This course examines the regulations, policies, procedures and best practices for early childhood curriculum related to health, safety, food, and nutrition while supporting child development through everyday planning and school programming. The importance of collaboration between families and health and school professionals to ensure physical and mental health of all children, families, and professionals will be explored. Students will have to show proof of negative TB test results by the 4th week of the semester. Observations to local child development centers will be included. CSU

CDEV 114

Careers in Teaching

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to the teaching profession, culturally diverse student populations, career ladders and options, academic preparation, experience, and credentials required for employment, utilizing career assessments, principles of goal setting, and exposure to teaching environments and teaching professionals. Students will formulate a career objective and develop an educational plan (Same as Counseling 114). CSU

CDEV 116A

Infant/Toddler Growth and Development (DS4)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 107; CDEV 108 with a minimum grade of C. By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

A study of infants and toddlers from 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. CSU/UC

CDEV 116B

Care and Education for Infants and Toddlers (DS3)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 107; CDEV 108; CDEV 116A with a minimum grade of C; Or concurrent enrollment in CDEV 116A. By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

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. CSU

CDEV 120A

Development of the School-Age Child (DS5)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the physical, cognitive, personality, and social development of children between the ages of five and twelve years. Attention will be paid to the scientific study of middle childhood, developmental trends, and issues of diversity. Not offered every semester. (Same as EDU 120A) CSU/UC

CDEV 120B

School-Age Child Care and Recreation Activities (DS5)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on school age creative activities, including planning and implementing an appropriate before/after school curriculum. Attention will be paid to integrating academics, recreation, and creative activities suitable for school-age child care programs. (Same as EDUC 120B) CSU

CDEV 200

Introduction to Technology in Early Childhood Education

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

This course provides students knowledge about and experience with technological tools used in early childhood settings. Students will have the opportunity to evaluate the impact of technology as it relates to growth and development of children and developmentally appropriate practices. Emphasis will be on basic knowledge and practice in a wide variety of current and emerging technologies and how to integrate them in the learning environment. CSU

CDEV 205

Introduction to Children with Special Needs

Unit(s): 3.0 Class Hours: 53.0 Lecture total.

Introduces the variations in development of children and adolescents with special needs, and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to individuals with special needs, and the identification and referral process. (same as EDU 203) CSU

CDEV 206

Curriculum and Intervention Strategies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 205 with a minimum grade of C.

This course focuses on curriculum and intervention strategies for supporting young children's individual 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 an intentional teacher and professional working with families, collaboration with interdisciplinary teams, and cultural competence. CSU

CDEV 207

Supporting and Empowering Families of Children with Special Needs

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 205 with a minimum grade of C.

This course will provide teachers, intervention assistants, administrators, and parents the tools necessary to support and empower families of children with disabilities and other special needs in early childhood and school age programs. Techniques, strategies, and resources will be provided to support children in a natural and/or inclusive educational setting and to help guide parents to be advocates of their children. CSU

CDEV 210

Creative Music Experiences for Young Children

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Explores musical expression through songs and ballads, the elements of music, and diverse types of instruments as used in the early childhood curriculum. Includes the study of musical growth and development in young children and the use of music as a classroom management tool. CSU

CDEV 214

Creative Art Experiences for Children

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Emphasizes the child's (ages 2 through 8 years) ability to represent and expressively use art media. Includes theoretical as well as practical application and the role of adult in fostering creativity. CSU

CDEV 215

Administration I: Programs in Early Childhood Education (DS6)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Twelve (12) units in early childhood education.

This course is an introduction to the administration of early childhood programs. Students will learn about program types, budget, management, regulations, laws, development and implementation of policies and procedures. Additionally, they will examine administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. CSU

CDEV 216

Administration II: Personnel and Leadership in Early Childhood Education (DS6)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Twelve (12) units in early childhood education.

This course provides effective strategies for personnel management and leadership in early care and education settings. Students will learn about legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. CSU

CDEV 220

The Child as a Victim

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of battered, molested, and neglected children from five vantage points:

child, law, parents, social services and educator (Same as Counseling 220). CSU

CDEV 221 (C-ID ECE 230)

Living and Teaching in a Diverse Society

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examination of the development of social identities in diverse societies, and implications of oppression and privilege, as they apply to young children, families, programs, classrooms, and teaching. Classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches, self-examination, and reflection on issues related to social identity, stereotypes and bias, social and educational access, media, and schooling. CSU/UC

CDEV 229

Brain Development and Learning

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class explores the development of the brain for children from birth through adolescence, and how behavior and learning are affected. Brain-based learning strategies will be used to teach new ways of approaching learning including how to understand diverse learning styles. This course is designed for educators, parents, and students who are interested in knowing more about how the brain operates and how environment affects the brain. CSU

CDEV 230

Child Guidance and Classroom Management

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will explore expectations about young children's behavior and the importance of teacher interaction skills in addressing and dealing with behavior issues. Behavior expectations will be defined, skills for dealing with various behaviors will be developed and a file of community resources in regards to behavioral issues will be created. It is advised that participants take this course in conjunction with working in a classroom setting. CSU

CDEV 231

Developing Language and Literacy in Young Children

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

Designed to introduce students to basic concepts of first and second language acquisition and literacy in young children including classroom applications. CSU

CDEV 232

Math and Science Methods for Early Learning Environments

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduces early learning teachers to basic math and science principles and the standards established by the National Council of Teachers of Mathematics, National Science Content Standards for early learning environments and Next Generation Science Standards. This course includes theoretical and practical applications for problem-solving and critical thinking that are common to math and science. Students will develop a personal file of appropriate math/science activities for early learning. CSU

CDEV 250

Adult Supervising and Mentoring in Early Care and Education

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: CDEV 111B or CDEV 116B with a minimum grade of C.

For the experienced teacher, a study of the methods and principles of supervising adults in early childhood classrooms. Emphasis is on the role of experienced classroom teachers who function as supervisors/mentors to new teachers and staff while simultaneously addressing program quality and the needs of children, parents, and other staff. CSU

CDEV 297

Analyzing and Applying Teacher Strategies in the Classroom

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CDEV 111B or CDEV 116B or CDEV 120B with a minimum grade of C, and By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

This course will provide students with essential skills to utilize a variety of current statewide assessment tools that address the quality of early childhood programs and the developmental levels of young children. Students will identify strategies to help teachers effectively use curriculum that is intentional, child-focused, and content-driven. Students will also learn to be responsive of cultural diversity, English-language learners, and the unique needs of families. CSU

CDEV 298A (C-ID ECE 210)

Practicum in Early Childhood Programs

Unit(s): 3.5 Class Hours: 36.0 Lecture, 81.0 Lab total.

Prerequisite: CDEV 107; CDEV 108; CDEV 110; CDEV 111A; CDEV 111B; CDEV 112; CDEV 221; CDEV 297 with a minimum grade of C, and By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

Under guided supervision in a RSCCD Child Development Center or approved mentor site, students will demonstrate competency in connecting theory to practice, and enhance professional-behaviors. Students will plan and implement child-centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as students design, implement, and evaluate positive experiences for young children. CSU

CDEV 298B

Practicum in Infant/Toddler Programs

Unit(s): 3.5 Class Hours: 36.0 Lecture, 81.0 Lab total.

Prerequisite: CDEV 107; CDEV 110; CDEV 108; CDEV 112; CDEV 116A; CDEV 116B; CDEV 221; CDEV 297 with a minimum grade of C, and By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required. and.

Under guided supervision in a RSCCD Child Development Center or approved mentor site, students will demonstrate competency in connecting theory to practice and enhance professional behaviors. Students will plan and implement infant/toddler-centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as students design, implement, and evaluate positive experiences for infants and toddlers. CSU

CDEV 299

Cooperative Work Experience Education

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire career awareness and work habits in early childhood, K-12, and after-school programs. 75 hours of paid work or 60 hours of unpaid work equals one unit of course credit.

Student repetition is allowed per Title 5, Section 55253. CSU

CHINESE (CHNS)

CHNS 101

Elementary Chinese I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Practice and integration of pronunciation, grammar, vocabulary, and common idioms through listening, speaking, reading, and writing so that students can begin to express thoughts orally and in writing. The class will also introduce students to culture and social linguistic knowledge appropriate to Chinese- speaking societies. CSU/UC

CHNS 102

Elementary Chinese II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: CHNS 101 with a minimum grade of C.

Continuation of Chinese I. Further training in language skills providing avenues for the expression of ideas in both oral and written forms. Enhanced study of culture and socio- linguistic knowledge appropriate to Chinese- speaking societies. CSU/UC

COMMUNICATION STUDIES (CMST)

CMST N49

Introduction to Academic Speaking Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Beginning course for non-native students with previous instruction in basic English as a second language. Includes listening discrimination, pronunciation, speaking and listening skill building. Skills are intensively practiced and reviewed. Not applicable to associate degree. (Same as EMLS N49).

CMST N52A

Beginning American English Pronunciation Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Instruction in pronunciation of American English sounds, identifying commonly mispronounced sounds, and common sound spelling patterns. Not applicable to associate degree. (Same as EMLS N52A).

CMST N52B

Intermediate American English Pronunciation Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST N52A with a minimum grade of C.

More extensive instruction in American English sounds. Emphasis on more difficult sounds, sound blends, word endings, syllable and word stress. Not applicable to associate degree. (Same as EMLS N52B.)

CMST 097

American English Conversational Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Intensive, advanced conversational practice of American English. The course emphasizes oral competency in key American social, academic and business encounters and communication techniques. Preparation for Communication Studies 101, 101H, or 102. Recommended for English learners.

CMST 101 (C-ID COMM 130)

Introduction to Interpersonal Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

Introduction to communication theory, rhetoric, listening, perception, language usage, nonverbal communication, and conflict management. Students participate in oral and written exercises and simulations; these activities are designed to enhance communicative awareness and skills in interpersonal contexts. It is designed to assist students in improving their own interpersonal and oral communication skills. CSU/UC

CMST 101H (C-ID COMM 130)

Honors Introduction to Interpersonal Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

Introduction to communication theory, rhetoric, listening, perception, language usage, non- verbal communication and conflict management. An enriched approach designed for honors students. Seminar mode stresses the development of analytical thinking, writing, and speaking skills. CSU/UC

CMST 102 (C-ID COMM 110)

Public Speaking

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C.

Teaches critical thinking skills in relation to public speaking. Emphasis on the process, principles, and major facets of critical thinking with practice through oral presentations. CSU/ UC

CMST 102H

Honors Public Speaking

Unit(s): 3.0 Class Hours: 54.0 Lecture total

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

This course is an enriched approach to public speaking, designed for honors students that emphasizes the process, principles, and major facets of critical thinking with practice through oral presentations. CSU

CMST 103 (C-ID COMM 150)

Introduction to Intercultural Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C.

A general view of the sociological, psychological, and communication patterns of various cultural groups. Special emphasis on the methods, skills, and techniques necessary for effective intercultural, crosscultural, and interracial communication. Stresses the development of analytical thinking, speaking, and writing skills. CSU/UC

CMST 103H (C-ID COMM 150)

Honors Introduction to Intercultural Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Enriched for honors students. In-depth, seminar format examination of sociological, psychological, and communication patterns of various cultural groups. Methods, skills, and techniques for effective intercultural and interracial communication. Stresses analytical thinking, speaking, and writing skills. CSU/UC

CMST 107

Communication for the Health Care Professional

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Introduction to communication skills vital to health care settings-listening, presentation skills, cultural awareness, expressions and terminology used in health care settings. Designed for students whose first language is not English. CSU

CMST 140 (C-ID COMM 120)

Argumentation and Debate

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Completion of or concurrent enrollment in English 101 recommended. Communication Studies 097 recommended for non-native speakers.

Principles of debate techniques with emphasis on methods of logical analysis and reflective thinking. Practical application through adaptation of material to forms of debate on current issues. CSU/UC

CMST 145 (C-ID COMM 140)

Group Dynamics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Principles and methods of communication as applied in the small group setting. Emphasis on communication skills, processes, and operations in the small group. Includes understanding group dynamics and cooperative problem solving. CSU/UC

CMST 151

Voice and Diction for Effective Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Basic speech and voice production. Anatomy and physiology related to respiration (breathing/loudness), phonation (sound/pitch) and articulation (diction/clarity). Practice in improving vocal skills for effective communication. Designed for individuals who have special demands on vocal production in their vocation. CSU

CMST 152 (C-ID COMM 170)

Oral Interpretation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Oral presentation of prose and poetry; practice in speaking, interpretation, and analysis of literature, with training in the principles of effective delivery. Not offered every semester. CSU/UC

CMST 158

Readers Theatre

Unit(s): 3.0 Class Hours: 54.0 Lecture total

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Oral presentation of prose and poetry; practice in speaking, reading, and analysis of literature, with training in the principles of effective ensemble delivery. CSU/UC

CMST 170

Introduction to Phonetics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of the articulatory foundations of the description and classification of speech sounds. Introduces the International Phonetic Alphabet (IPA), physiological properties of the speech- producing mechanism, and methods of transcription. Emphasis will be on American English along with comparison to the sound systems of other languages. Communication Studies N53 recommended for non-native speakers. CSU

CMST 199

Independent Study

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: Divisional approval. To be eligible for independent study a student must be concurrently enrolled in at least one other class at either Santa Ana College or Santiago Canyon College and must show evidence of competence in his academic major and the area in which he proposes to do independent study. (SAC catalog).

Directed field experience, research, or development of skills & competencies. CSU

CMST 206

Gender Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 101; CMST 103 with a minimum grade of C.

Practical application, techniques and in-depth analysis of male and female communication regarding language usage, biological and social influences, mass media, marriage, organizations, same sex/cross sex friendships, and education.CSU/UC

CMST 206H

Honors Gender Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND CMST 101 or CMST 101H or CMST 102 or CMST 103 or CMST 103H or CMST 104 or CMST 140 or CMST 145 or CMST 151 with a minimum grade of C.

An enriched approach in practical application, techniques, and in-depth analysis of male and female communication regarding language usage, biological and social influences, mass media, marriage, organizations, same sex/ cross sex friendships, and education. Students will be required to do individual/group professor-guided research. CSU/UC

CMST 307

Health Communication

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program. CMST 101 or CMST 101H or CMST 102 or CMST 103 or CMST 103H or CMST 145 with a minimum grade of C.

Course is designed to advance knowledge of health communication theory, research and practice while providing solid foundation for understanding importance, value and impact of health communication upon patients, families, caregivers and healthcare team-members.

COMMUNICATIONS & MEDIA STUDIES (CMSD)

CMSD 102

Multimedia Storytelling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores alternative story forms by combining text, still photographs, video clips, audio, graphics and interactivity to tell stories in the most compelling and informative way. Focuses on using a variety of media to tell different parts of a story for presentation in digital and online platforms. CSU

CMSD 103 (C-ID JOUR 170)

Introduction to Visual Communications

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This multimedia course explores the social, cultural and historical implications of visual communications from Gutenberg's printing press to present day digital media. Using works of philosophical, historical and cultural importance students will analyze and debate the changes in the way visual communications affect society, and shape cultural values. CSU/ UC

CMSD 105 (C-ID JOUR 100)

Mass Media and Society

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of mass communication and the interrelationships of media with society including history, structure and trends in a digital age. Examines major media forms, theories and effects in our information- conscious culture. CSU/UC

CMSD 105H (C-ID JOUR 100)

Honors Mass Media and Society

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Enriched honors course of intensive exploration of historical impact and current influence of mass media (newspapers, TV, Internet, etc.). Uses critical thinking skills in seminar-setting to assess media's role in society. CSU/UC

CMSD 110

Introduction to Creative Nonfiction

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H or CMSD 121 with a minimum grade of C.

Exploration of creative nonfiction writing concepts, and genres with focus on critically reading and analyzing respected works of literature ranging from biography and review to profiles and personal essays. CSU/UC

CMSD 111

Media, Race and Gender

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This multimedia course is an overview of the social and cultural implications of mass media on race and gender from the 1920s to the present. Using works of philosophical and cultural importance students will analyze and debate the changes in the faces of media with particular focus on social class, gender and ethnicity. CSU/UC

CMSD 121 (C-ID JOUR 110)

Introduction to Reporting and Newswriting

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to evaluating, gathering, and writing news across multiple platforms under newsroom conditions. Includes role of the journalist in a multi-media environment and the legal and ethical issues related to reporting. Writing experiences include: web- based and multi-media reporting, interviewing techniques, research methods, application of media law, writing under deadline and use of AP Style. CSU

CMSD 123A (C-ID JOUR 130)

News Media Production

Unit(s): 4.0 Class Hours: 72.0 Lecture, 180.0 Lab total.

A production-based course designed around a functioning media organization, providing students practical training in print, digital and Web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Arranged laboratory hours (TBA) 10 hours per week. CSU

CMSD 123B (C-ID JOUR 131)

Intermediate News Media Production

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: CMSD 123A with a minimum grade of C.

An intermediate level production-based course designed around a functioning media organization, providing students practical training in print, digital and web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Completion of CMSD 123A is required. Arranged laboratory hours (TBA)10 hours per week. CSU

CMSD 123C

Advanced Intermediate News Media Production

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: CMSD 123B with a minimum grade of C.

An advanced intermediate level production- based course designed around a functioning media organization, providing students practical training in print, digital and Web- based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Completion of CMSD 123B required. Arranged laboratory hours (TBA)10 per week. CSU

CMSD 123D

Advanced News Media Production

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: CMSD 123C with a minimum grade of C.

An advanced level production-based course designed around a functioning media organization, providing students practical training in print, digital, and Web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia, and emerging technologies. Completion of CMSD 123C required. Arranged laboratory hours (TBA)10 per week. CSU

CMSD 150

Introduction to Public Relations

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An exploration of the principles, history and development, and professional practice of modern public relations. Includes concepts of planning and executing effective communication strategies, including message design and distribution, for any organization. CSU

CMSD 160 (C-ID JOUR 160)

Introduction to Photojournalism

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Stresses news, feature photography, and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet, and other mass communications media. CSU

CMSD 201

Visual Reporting

Unit(s): 2.0 Class Hours: 36.0 Lecture, 18.0 Lab total.

Course stresses how to perceive and select visual images through work with a digital camera, a computer, and related graphics software. Students learn application and manipulation of images in digital form by focusing on telling stories through pictures and informational graphics. Students serve as visual reporters for campus media. CSU

CMSD 210 (C-ID JOUR 210)

Intermediate Reporting and Newswriting

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CMSD 121 with a minimum grade of C.

This course is a continuation of Introduction to Newswriting and Reporting and focuses on coverage of public affairs reporting, including local and regional government, police, courts, school, and city boards. It includes both on- and off-campus reporting and writing, stressing news presentation for a variety of media purposes through multiple platforms. CSU

CMSD 222

Writing Across Media

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H or CMSD 121 with a minimum grade of C.

For writing students seeking a better understanding of non-fictional prose genres focusing on narrative storytelling techniques for Web, Multimedia and Print. Emphasizes integration of writing skills across media formats. CSU

CMSD 298A

Designing for Print and Digital Media

Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

A comprehensive course emphasizing professional standards, theory, and techniques in print, digital, and Web-based design. Students use a digital laboratory as a platform for training in design theory, visual organization, color theory, scale, unity, and use of typography. For those interested in design careers. CSU

CMSD 298B

Intermediate Designing for Print and Digital Media

Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: CMSD 298A with a minimum grade of C.

An intermediate level comprehensive course emphasizing professional standards, theory, and techniques in print, digital, and Web-based design. Students use a digital laboratory as a platform for training in design theory, visual organization, color theory, scale, unity, and use of typography. For those interested in design careers. Completion of CMSD 298A is required. CSU

COMPUTER SCIENCE (CMPR)

CMPR 100

The Computer and Society

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the area of computers and their relationship to todays' information society. Examines a broad overview of topics including hardware, software, networking, information technology, and the Internet. The student will explore the implication and effect of technology on society, careers, and ethics. CSU/UC

CMPR 104

Cooperative Work Experience Education- Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

CMPR 105

Visual BASIC Programming

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to programming and Visual BASIC. Emphasis on programming fundamentals and the creation of applications with Visual BASIC. No previous programming experience required. Students will write programs on PC compatible computers. CSU/ UC

CMPR 112 (COMP 112)

Java Programming

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of the Java language, its features and applications. CSU/UC

CMPR 113

Advanced Java

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CMPR 112 with a minimum grade of C.

This course will introduce Text Processing, Inheritance, Exception's I/O, Intro and Advanced GUI Applications, Arrays, Advanced Classes and Database Connections using Java Database Connectivity (JDBC). Students should already have knowledge of Java in Decision Making using If Conditional Statements, Basic Loops, Creating Methods and Creating Classes. CSU/UC

CMPR 114

Python Programming

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will be introduced to the syntax of Python, the methods used to incorporate Python into creating business applications, and using Python to create interactive forms. Students will also learn to enhance Business Applications through the use of Interactive Programming utilizing forms, objects, looping constructs, variables, classes and the use of various data-types. CSU/UC

CMPR 117

Perl Programming and CGI

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will be introduced to the Perl scripting language syntax, data types, input/output, managing system processes, database programming, CGI programming and Web programming. CSU

CMPR 118

JavaScript Programming

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will be introduced to the syntax of JavaScript, the methods used to incorporate JavaScripts into HTML documents, and using JavaScripts to create interactive forms. Students will also learn to enhance Web pages through the use of Interactive Programming utilizing forms, frames, documents, Windows, loops, strings, and cookies. CSU

CMPR 120 (C-ID COMP 112)

Introduction to Programming

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Prerequisite: MATH 083 or MATH 084 with a minimum grade of C.

Introduction to programming concepts including data types, mathematical operations, elementary input/output, and the basic control structures of sequence, selection, iteration, and functions. Program design techniques utilizing structured and object-oriented methodologies will be emphasized. CSU/UC

CMPR 121 (C-ID COMP 122)

Programming Concepts

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Prerequisite: CMPR 120 with a minimum grade of C.

Continuing introduction to programming concepts, development of algorithms utilizing functions, classes, and the primary control structures. Program I/O; strings and arrays; data types; classes, and objects. Documentation techniques. CSU/UC

CMPR 124A

MCDST Preparation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 100 with a minimum grade of C.

Study of skills needed to successfully support end-users and to successfully troubleshoot desktop environments that are running the Microsoft operating systems. Student will be provided with the skills necessary for the Microsoft Certified Desktop Support Technician (MCDST) Exams, 70-271 and 70-272. CSU

CMPR 125

Help Desk Fundamentals

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to Help Desk "soft skills," such as effective communication, analytical thinking, diplomacy, problem solving, leadership, team building, and listening skills. In addition to learning necessary soft skills, students will be familiar with a help-desk environment, its function and organization. CSU

CMPR 129 (C-ID COMP 142)

Introduction to Computer Organization

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: CMPR 120 with a minimum grade of C.

Recommended Preparation: CMPR 121 with a minimum grade of C.

Presents the organization and structure of computers at hardware and software levels: analysis and synthesis of combinatorial and sequential logic, data representation and manipulation, language structures and translation, and process administration and management. Recommended preparation: Computer Science 121 or equivalent. CSU/UC

CMPR 131 (C-ID COMP 132)

Data Structures Concepts

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CMPR 121 with a minimum grade of C.

Application of simple Data Structures Concepts (ADT's) including linked structures, stacks, queues, and trees. Use of pointers, recursion, sorting algorithms, classes, and object-oriented programming to implement data structures. CSU/UC

CMPR 134

Microsoft Windows Operating System

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Microsoft Windows operating system. Course topics include installation, configuration, application installation and management, hardware configurations, file and information management, security, managing user accounts, networking, digital media, system maintenance and management, desk top management, and utilization of cloud storage. CSU

CMPR 136

Building a Small Office/Home Office Network

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Plan and build a SOHO network. Students will learn about simple file-sharing networks, wireless networks, and more advanced networking technologies that connect multiple machines and devices. Students will be able to choose the networking solution that is best suited to their needs. CSU

CMPR 137

Personal Computer Troubleshooting

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of techniques and methods of PC maintenance. Topics include the interaction between hardware and software, the motherboard and CPU, managing memory, disk drives, input and output and multimedia, printers, installation, management and supporting Windows, network and Internet connectivity, purchasing and building a PC, backups, viruses, and troubleshooting PC problems. CSU

CMPR 138

CompTIA Network+ Guide to Networks

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course prepares students how to install, configure, and troubleshoot a computer network is a highly marketable and exciting skill. This course first introduces the fundamental building blocks that form a modern network, such as protocols, media, topologies, and hardware. It then provides in depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, virtual networks, security, and troubleshooting. Student will be prepared to pass CompTIA's Network+ N10-006 certification exam. CSU

CMPR 139

Configuration and Administration of Local Area Networks

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

The configuration and administration of Windows-based local area networks, including planning, hardware, software and Internet connectivity. Recommended preparation: completion of Windows server course. CSU

CMPR 140 (C-ID COMP 152)

Discrete Structures for Computer Science

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Course presents the fundamentals of discrete mathematics as applied to the computer sciences. Topics include sets, relations, functions, basic logic, proof techniques, counting, graphs, trees and probability. Recommended preparation: College Algebra. CSU/UC

CMPR 152

HTML

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to HTML (Hypertext Markup Language) scripting and the creation of Hypertext documents. Topics will include the specification of the form and function of documents, inclusion of hypertext links, images, frames, tables, forms, JavaScript, VRML, and new features of HTML. CSU

CMPR 153

A+ Essentials Hardware

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The A+ Essentials Hardware course maps to CompTIA's A+ Essentials Hardware exam. Course covers topics related to installing, building, upgrading, repairing, configuring, troubleshooting, optimizing, diagnosing, and performing preventive maintenance of basic personal computer hardware. Lecture and hands-on experience in structured labs is included. The A+ Essentials Hardware course teaches necessary competencies for an entry- level IT professional. Topics include Personal Computer Components, Operating Systems, Networks, Security. Lecture and hands-on experience in structured labs is included. The A+ Essentials Hardware course maps to CompTIA's A+ Essentials Hardware exam. CSU

CMPR 154

A+ Essentials Software

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The A+ Essentials Software course teaches necessary competencies for an entry-level IT professional. Topics include Personal Computer Components, Operating Systems, Networks, and Security. Lecture and hands-on experience in structured labs is included. The A+ Essentials Software course maps to CompTIA's A+ Essentials exam. CSU

CMPR 167

Microsoft Access

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Relational Database Management using Microsoft Access. Includes design, creation and maintenance of a RDBMS, reports and form generation, queries, importing and exporting data, macros and modules using Access Basic. CSU

CMPR 168

MS SQL Database Development

Formerly: Microsoft Access - Visual Basic for Applications

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Provides an introduction to relational database fundamentals and SQL programming skills in the Microsoft environment. Topics covered include relational database architecture, database design techniques, and simple and complex query skills. This course is a continuation of CMPR-167 in utilizing Microsoft Access to analyze large amounts of information and manage related data. CSU

CMPR 169

Structured Query Language (SQL)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 167 with a minimum grade of C.

The course covers database concepts and the use of SQL (Structured Query Language). Completion of Computer Science 167 or equivalent is recommended. CSU

CMPR 170

Introduction to Oracle

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The course will teach students the industry- leading RDBMS software and cover topics in SQL programming and PL/SQL. Students will learn to manipulate and cross-reference data and to show the importance of importing and exporting BIG data. Relational database development concepts using Oracle and application development using PL/SQL will be taught. CSU/UC

CMPR 173

Introduction to Networking Technology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A comprehensive overview of networking technology, including a history of LAN development and the uses and benefits of LAN's. Students are introduced to LAN terminology, components, standards, and upper level protocols. CSU

CMPR 175

CompTIA Security+ Guide to Network Security

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 138 with a minimum grade of C.

This course provides a comprehensive overview of network and information security topics such as threats, attacks, vulnerabilities, application/ data/infrastructure security, cryptography, operational/ organizational security, risk management, disaster recovery, business continuity, as well as computer forensics. The contents also map to the CompTIA Security+ certification objectives to prepare students for the exam. CSU

CMPR 198-00

Special Topics

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Computer Science and Computer Information Systems. CSU

CMPR 205

Advanced Visual Basic

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CMPR 105 with a minimum grade of C.

Advanced programming for those seeking to further develop their skills using Visual Basic programming language. Course will cover the advanced features of the Visual Basic programming language, data structures, and advanced programming techniques available with Visual Basic. CSU/UC

CMPR 213

C# Programming

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 120 with a minimum grade of C.

Study of C# programming. Topics covered include the .NET environment, object-oriented programming including inheritance and polymorphism, and writing graphical user interfaces. Completion of Computer Science 120 is recommended. CSU/UC

CMPR 214

XML Programming

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to XML (Extensible Markup Language). The course covers what it is, how it works, what technologies surround it, and how it can be used in data handling and web pages. Knowledge of HTML recommended. CSU

CMPR 247

Windows Server Operating System

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Installation, management, and configuration of Windows Server operating system for managing network environments. Recommended preparation: knowledge of any client-level Windows operating system. CSU

CMPR 248

Microsoft SQL Server

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Microsoft SQL Server, relational database concepts, programming with SQL and Transact-SQL, stored procedures, triggers, and use of client tools. Course is designed for developers and database administrators. Basic knowledge of SQL, programming and/or database concepts is helpful. CSU

COUNSELING (CNSL)

CNSL N45

Orientation to College

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Introduction to college services and programs. Identification and exploration of programs and services designed to assist students entering college credit courses.

CNSL N98

Topics

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A description of the course that will appear in the class schedule.

CNSL 021

Math Study Strategies

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course is designed to give intensive assistance to students in the areas of solving word problems, group study skills, test-taking strategies, note taking, and time management. Topics also include learning styles, active listening, and overcoming barriers to math comprehension.

CNSL 100

Lifelong Understanding and Self- Development

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Integrates concepts of lifelong understanding pertaining to career choice, educational planning, and self inventory. Skills, values, and interest assessments are utilized. Emphasis is on applying psychological principles to values clarification, goal setting, and decision making. Students analyze social/cultural conditioning and explore successful strategies for living in a diverse society. CSU/UC

CNSL 103

Educational Planning

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

This course is designed to introduce students to the process of composing an educational plan. Emphasis is placed on the objective assessment of Career/Technical Education and transfer options. Students will identify an educational pathway for Career/Technical Education, AA/AS degree, and/or university transfer. CSU/UC

CNSL 104

Personal and Goal Development for Educational Planning

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will facilitate the development of goals for educational planning. Students taking this course will receive an overview of graduation requirements, transfer requirements, academic policies, and college resources. Additional topics will include: student development theory, internal and external influences on educational success, purpose for attending college, and strategies for living a balanced life. CSU/UC

CNSL 106

Inquiries Into Higher Education

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A comprehensive and advanced study of selecting and completing an academic plan, developing goals and objectives, and choosing a college major. Topics include study techniques, assessing interests and skills and planning a major. CSU/UC

CNSL 107

The Freshman Experience

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Integration of educational, socio-economic, and psychological factors that contribute to success in college. Development of personal learning style as it interfaces with the linked college classes. Development of college-level learning skills. CSU/UC

CNSL 110

University Transfer Research

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Development and enhancement of decision- making strategies for transfer students. Identification of educational/career goals. Analysis, comparison, and evaluation of university entrance, major, and post-graduate requirements, and student services. On-site research/field study at universities. CSU/UC

CNSL 111

Learning Skills Development

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Application of educational/psychological principles in the development of effective learning skills for college courses. Topics also include identifying diversities of cultural influence, learning style, time management, textbook study/comprehension, note-taking, research preparation, and testing. CSU

CNSL 114

Careers in Teaching

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to the teaching profession, culturally diverse student populations, career ladders and options, academic preparation, experience, credentials required for employment, utilizing career assessments, principles of goal setting, and exposure to teaching environments and teaching professionals. Students will formulate a career objective and develop an educational plan. (Same as Child Development 114.) CSU

CNSL 116

Career/Life Planning and Personal Exploration

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to assist students in successfully establishing and achieving education, career, and life goals. Students are guided through a reflective process that focuses on values, interests, personality, skills, and learning styles. Career and education options are researched, and students are exposed to college resources and support services. Decision making models and goal setting techniques are examined and will be used to develop short and long term education, and career and life plans. CSU/UC

CNSL 120

Assertive Self Development

Unit(s): 3.0 Class Hours: 48.0 Lecture total.

A process for building self esteem and confidence in personal/social/professional interactions without feeling excess anger, guilt, stress, or passivity. Psychological theories will be used to identify, analyze, and change ineffective thought systems and behavior. CSU

CNSL 121

Introduction to STEM Study Skills

Unit(s): 1.0 Class Hours: 16.0 Lecture total.

This course is designed to introduce specialized study techniques for students in science, technology, engineering, and math courses. Effective learning processes will be examined through facilitated, structured peer interaction; strategies for complex problem solving; time management; and overcoming obstacles to achievement in rigorous coursework. CSU

CNSL 122

STEM Study Strategies

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course examines and employs advanced study techniques for students in science, technology, engineering, and math courses. Effective learning processes will be strengthened through applying emotional intelligence concepts to group and classroom study, creating an exam preparation plan and formulating long and short term goals. CSU

CNSL 124

College Success and Personal Growth

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analysis of the concepts related to learning and self-development as a lifelong process. Examination of human motivation from psychological, social, and physiological perspectives. An evaluation of the roles of values, ideals, and principle centered leadership in achieving balance in life. CSU/UC

CNSL 125

Exploring Leadership

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This introductory course will examine the fundamental concepts of effective leadership through reading, discussion, research, and inventories for self -awareness and assessment. The course will prepare students to understand the importance of leadership in careers, communities, and society in general and to assume responsibilities of leadership roles in college and community settings. CSU

CNSL 128

Introduction to Community Activism

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The study of issues facing communities and ways individuals can become involved in solving community problems. Introduces the study of communities in theory and practice: forces shaping past and present communities and issues defining contemporary communities. This course will facilitate the understanding of human beings as integrated physiological, psychological, and social entities within the context of communities and the process of change. CSU/UC

CNSL 144

Reasoning and Problem Solving

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The nature of critical thinking, models and strategies; common fallacies of reasoning, self-regulation in the thinking process; application of critical thinking to complex issues of life. CSU/UC

CNSL 150

Introduction to Human Services

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The history and philosophy of human services including theoretical frameworks, the function and orientation of human service organizations and the roles and qualifications of human service workers. A study of the target populations served by the human services and the professional, ethical, and cultural issues facing the human service field. CSU

CNSL 155

Skills for the Helping Professions

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An exploration of processes for increasing mental flexibility and assisting people in getting resolution on life issues. Focus is on the theory and practice of methods which are based in inquiry, distinction, resolution, and integration. The role of self-responsibility and self-awareness will be emphasized. CSU

CNSL 198

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Description of the course that will appear in the class schedule CSU

CNSL 220

The Child as a Victim

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of battered, molested, and neglected children from five vantage points: child, law, parents, social services, and educator (Same as Child Development 220). CSU

CRIMINAL JUSTICE (CJ)

CJ 098

Topics Course

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Varies with topic.

CJ 101 (C-ID AJ 110)

Introduction to Criminal Justice

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces that have shaped those principles and approaches. Although justice structure and process are examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. CSU/UC

CJ 101H

Honors Introduction to Criminal Justice

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Honors-level enriched content regarding the complexities of the criminal justice system. Increased focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines and appraises the evolution of the principles and approaches utilized by the justice system and the evolving forces that have shaped those principles and approaches. Although justice structure and process are examined in a cross cultural context, increased emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students will also examine the origins and development of criminal law, legal process, and sentencing and incarceration policies. CSU/UC

CJ 102 (C-ID AJ 200)

Introduction to Corrections

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory course in corrections in the criminal justice system. Emphasis on history, types, analysis, alternatives, and impacts of punishment. Critical examination of types of correctional institutions and persons housed in them, and examination of current issues and challenges in the corrections field. CSU

CJ 103 (C-ID AJ 120)

Concepts of Criminal Law

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analysis of criminal liability and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. Limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. CSU/UC

CJ 103H

Honors Concepts of Criminal Law

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Honors-level enriched content regarding criminal law. Presents analysis of criminal liability and the classification of crimes against persons, property, morals, and public welfare. Increased emphasis and appraisal is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. Expanded discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. CSU/UC

CJ 104

Prison Experience

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Full background check required.

A practical and in-depth study of adult corrections in the United States. This class includes field trips to jails and prisons in the surrounding area, with follow-up analysis, discussion, and written assignments. Full background check required for access to facilities. CSU

CJ 105 (C-ID AJ 124)

Legal Aspects of Evidence

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines categories of evidence and legal rules governing its admission and exclusion in the criminal process. CSU

CJ 106

Coroner Death Investigations

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The investigation of homicides, suicides, accidents, and natural deaths. Emphasis on evidence collection and identification of cause of death. Topics include violent crime wounds, fire and electrical wounds, traffic collision fatalities, buried bodies, skeletal remains, and autopsy protocols. CSU

CJ 107 (C-ID AJ 122)

Principles and Procedures in the Criminal Justice System

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal, utilizing statutory law and state and constitutional law precedents. (Same as Paralegal 107.) CSU

CJ 108 (C-ID AJ 150)

Crime Scene Investigation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the role of forensics in criminal investigations. An examination of the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents, and controlled substances. CSU

CJ 109 (C-ID AJ 160)

Community Interaction

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict, with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in culture, religion, and law. CSU/UC

CJ 109H

Honors Community Interaction

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Honors-level enriched content regarding community interaction. This course examines and evaluates the complex, dynamic relationship between communities and the justice system in addressing crime and conflict, with an increased emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics will include the consensus and conflicting values in culture, religion, and law. CSU/UC

CJ 110

Street Gangs

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of street gangs in the United States, with emphasis on California and the local area. Topics include ethnic gangs, taggers, hate groups, and prison gangs, and current efforts to supress their criminal activities, via enforcement, rehabilitation, and prevention. CSU

CJ 148

Report Writing for Criminal Justice Personnel

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Completion of English 061X with a C or better.

To develop practical, precise report writing techniques as well as general writing skills applicable to law enforcement and corrections. CSU

CJ 198

Topic Course

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Varies with course. CSU

CJ 205 (C-ID AJ 140)

Criminal Investigation Principles

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Techniques, procedures, and ethical issues in the investigation of crime. Emphasis upon organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, sources of information, utility of evidence, scientific analysis of evidence, and the role of the investigator in the trial process. CSU

CJ 209

Organized Crime

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

In-depth study of the development and methodology of international organized crime. Host countries and areas include: Italy, Sicily, Japan, China, Colombia, Mexico, Russia, Haiti, Cayman Islands, and Caribbean. Emphasis on economic and societal impacts on the United States. CSU

CJ 220 (C-ID AJ 220)

Juvenile Delinquency and Control

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the origin, development, and organization of the juvenile justice system. Explores the theories that focus on juvenile law, courts, and processes, and the constitutional protections extended to juveniles within the US justice system. CSU

CRIMINAL JUSTICE ACADEMIES (CJA)

CJA 006B

Arrest and Control Training/ACT

Unit(s): 0.1-0.5 Class Hours: 1.0-3.0 Lecture, 3.0-21.0 Lab total.

Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Ability to legally possess a baton in the State of California. Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous activities such as kneeling, lying in prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons. Students will be exposed to tear gas and pepper spray.

This course builds upon the student's existing skills and knowledge in the legal, safe, and proper application of arrest and control technique in the law enforcement environment. Instruction includes safe and proper use of ground fighting technique, use of chemical weapons, use of non-lethal weapons, use of carotid control technique, and current case law.

CJA 007A

Gangs, Cults and Hate Crimes

Unit(s): 0.1-0.5 Class Hours: 4.0-40.0 Lab total.

Prerequisite: CJA 100A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in Government Code Section 1031.

This course covers gangs, cults and hate crimes: Ethnic gangs, organized crime, current gang trends, gangs and drugs, and drug cartels. Course information is POST and/or STC approved.

CJA 007B

Gangs, Cults, Subcultures, and Hate Crimes

Unit(s): 0.2-0.5 Class Hours: 4.0-10.0 Lecture, 0.0-14.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Course is designed to provide peace officers with current instruction on gangs, cults, subcultures, and hate crimes. Course content includes current trends, recent changes in laws, and strategies to address associated criminal activity.

CJA 008B

Corrections Supplemental Core Course

Unit(s): 5.5 Class Hours: 89.0 Lecture, 7.0 Lab total.

Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed for the corrections officer who has completed the Commission on Peace Officers Standards and Training (POST) Basic Academy. It meets the California Standards and Training for Corrections (STC) regulations for entry-level training for personnel who work in adult custodial programs and facilities.

CJA 008C

Emergency Response Team Training

Unit(s): 0.2 Class Hours: 1.0 Lecture, 7.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Course is designed to enhance and review Emergency Response Team (ERT) responsibilities and protocols in compliance with Standards and Training for Corrections (STC).

CJA 009B

Fitness for Law Enforcement

Unit(s): 0.1 Class Hours: 2.0 Lecture, 14.0 Lab total.

Fitness training designed specifically for law enforcement applicants and those with an interest in entering a law enforcement basic police academy program.

CJA 009C

Advanced Narcotics Training

Unit(s): 0.2-0.5 Class Hours: 4.0-10.0 Lecture, 0.0-14.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Course is designed to cover all aspects of illegal drug enforcement, including legal updates, search and seizure updates, investigative techniques, and other topics related to the enforcement of controlled substances statutes.

CJA 009D

Drug Trends, Identification, Packaging, and Symptomology

Unit(s): 0.2 Class Hours: 3.0 Lecture, 5.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed to provide law enforcement professionals with the knowledge to identify and safely handle controlled substances. Report writing, evidence collection, and presumptive testing will be discussed. A combination of may be taken a maximum of four enrollments.

CJA 009E

Narcotics Investigation

Unit(s): 3.0 Class Hours: 39.0 Lecture, 41.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed for sworn law enforcement officers assigned to investigate narcotic violations. The course prepares the student to identify, arrest, and successfully prosecute narcotic violators.

CJA 010

Pre-Employment Preparation for Law Enforcement

Unit(s): 1.5 Class Hours: 14.5 Lecture, 33.5 Lab total.

Criminal justice career information will be provided. Emphasis will be on preparing students to successfully complete law enforcement pre-employment testing including oral boards, physical agility, and training academy requirements.

CJA 010B

Supervision and Leadership

Unit(s): 0.3-1.0 Class Hours: 5.0-8.0 Lecture, 3.0-32.0 Lab total.

Course is designed to enhance the professional knowledge of law enforcement supervisors in specified groupings of leadership, supervision skills, legal issues, and handling of workplace investigations, in accordance with POST and STC Standards.

CJA 010D

Explorer Training Academy

Unit(s): 1.0-2.5 Class Hours: 6.0-16.0 Lecture, 34.0-92.0 Lab total.

Prerequisite: Students sponsored by law enforcement agencies must meet agency Explorer Post application guidelines. Self-sponsored students must meet all prerequisites prior to being admitted into the course, and will be responsible for providing their own required uniforms and equipment. Self-sponsored student's applications will be evaluated and screened by the Criminal Justices Academies Coordinator and staff to ensure students are sufficiently prepared. Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous physical activities such as running, marching, push-ups, sit-ups, kneeling, jumping, climbing, and handcuffing. Students will be exposed to loud noises, tear gas, and pepper spray. If the student is a minor, the parent(s) or legal guardian must sign consent forms and waivers related to and confirming student's physical, mental, and medical suitability for attending this course. Parent(s) or legal guardian must also sign consent forms for medical treatment and transportation of minor student. Students must meet academy hygiene and grooming standards, and will be required to follow strict rules of conduct at all times. Violation of rules of conduct may result in immediate dismissal from the course.

This course will prepare Law Enforcement Explorers for volunteer work at law enforcement agencies.

CJA 011

Field Training Officer

Unit(s): 1.5 Class Hours: 21.0 Lecture, 19.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed for sworn law enforcement officers assigned to supervise and train new officers. This course meets the requirements for field training officers as defined in POST Regulation 1004.

CJA 012

Basic Homicide Investigation

Unit(s): 1.5 Class Hours: 25.0 Lecture, 11.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is certified by California Peace Officer Standards and Training (POST) and meets the requirements for basic homicide investigations for California peace officers. The course is presented in cooperation with the Orange County Sheriff's Department.

CJA 014

Immigration and Customs Enforcement Correctional Training

Unit(s): 0.2-0.5 Class Hours: 4.0-8.0 Lecture total.

Prerequisite: CJA 008B or CJA 069B with a minimum grade of C.

This course is intended for correctional officers working in correctional institutions that are responsible for housing ICE detainees.

CJA 015

Patrol School

Unit(s): 2.5 Class Hours: 23.0 Lecture, 57.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed for sworn law enforcement personnel who have completed a basic police academy program and are preparing themselves for an assignment as a field patrol officer. Students will build upon the knowledge they obtained in formal training and from previous law enforcement assignments and apply it to the course content in this course.

CJA 015A

Sergeants Patrol Transition Course

Unit(s): 1.0 Class Hours: 5.0 Lecture, 35.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Course is designed to prepare a police supervisor to transition to a patrol assignment.

CJA 016

Vehicle Theft for Patrol and Traffic Officers

Unit(s): 0.4 Class Hours: 2.0 Lecture, 14.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is certified by California Peace Officer Standards and Training (POST) and meets the requirements for advanced officer training in auto theft for patrol and traffic officers. Prior to taking this course students should have formal training and a working knowledge of patrol operations and criminal investigations. The course is presented in cooperation with the Orange County Sheriff's Department.

CJA 021

P.C. 832, Laws of Arrest

Unit(s): 1.5 Class Hours: 27.0 Lecture, 13.0 Lab total.

This course of instruction will provide the student with a basic knowledge of law enforcement. The course will cover history of law enforcement, arrest, and search and seizure laws. This course is Peace Officer Standard Training (P.O.S.T.) certified.

CJA 021A

PC 832 Firearms

Unit(s): 0.5 Class Hours: 1.0 Lecture, 23.0 Lab total.

Prerequisite: Students must pass DOJ Livescan and application screening by Orange County Sheriff's Department Training Division.

This course of instruction will provide the student with a basic knowledge of firearms, as well as related safety and liability issues. The course is P.O.S.T. certified and presented in cooperation with the Orange County Sheriff. (Pass/No Pass Only)

CJA 026A

Training Academy Preparation

Unit(s): 0.3 Class Hours: 16.0 Lab total.

Prerequisite: California POST Certified Peace Officer.

This course is designed to prepare the student for the Basic Law Enforcement Academy. It will include drill, ceremony, physical training, reporting, and speeches.

CJA 029B

Bomb Technician Introduction

Unit(s): 2.0 Class Hours: 30.0 Lecture, 10.0 Lab total.

Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Student must possess, at minimum, a currently valid U.S. government secret clearance that authorizes them to attend this course. Student must be approved by FBI to attend this course. Student must meet FBI bomb technician requirements described in the National Guidelines for Bomb Technicians, as published by the FBI and National Bomb Squad Commanders' Advisory Board.

This course is designed for newly assigned bomb technicians. Topics include introduction to explosives, basic electricity, render safe procedures, bomb threats, threat assessment, and post blast investigations.

CJA 029C

Active Bomber Course

Unit(s): 0.5 Class Hours: 2.0 Lecture, 22.0 Lab total.

Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Student must: 1) be free of felony convictions; 2) possess a valid California Driver's License; 3) undergo a fingerprint and criminal history check; 4) be a minimum of 18 years of age; 5) be a United States high school graduate or pass the GED, pass the California High School Proficiency Examination, or have attained a two-year or four-year degree from an accredited college or university; and 6) complete a medical suitability examination.

This course helps prepare law enforcement first responders react to a suicide bombing incident. Topics include threat evaluation, deployment of force, decision making, tactics, and scenarios.

CJA 029D

Homemade Explosive Course

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency

Course is designed to educate first responders on the dangers of homemade explosive devices and how to recognize bomb-making components and materials

CJA 029E

Explosive Recognition and Response

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Course is designed to teach students how to recognize the various components of explosions, as well as recognition of booby traps designed to harm first responders.

CJA 034B

Brady for Law Enforcement

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Course is designed to provide law enforcement personnel with instruction on the Brady Rule.

CJA 034C

Law Enforcement Update

Unit(s): 0.2-0.5 Class Hours: 4.0-8.0 Lecture, 0.0-20.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. or Legally approved to possess a baton in the State of California. Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous activities such as kneeling, lying in a prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons. Students may be exposed to tear gas and/or pepper spray.

Course is designed to provide both sworn and non-sworn law enforcement personnel with training that is mandated for their continued professional certification and employment. All instruction is either POST or STC certified.

CJA 034D

Courthouse Operations

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed to prepare a peace officer to work within the court system and a courthouse environment. Instruction includes the importance of ethical conduct, professionalism, preparation, and accurate witness testimony.

CJA 034E

Continued Professional Training for Peace Officers

Unit(s): 0.2-3.0 Class Hours: 4.0-40.0 Lecture, 4.0-40.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C.

This course updates and advances the student's existing knowledge and skill set associated with peace keeping and law enforcement. Instruction in evolving issues includes the safe handling of firearms, tactical shooting and movement, ground fighting, chemical weapons, government codes, penal codes, vehicle codes, health and safety codes, welfare and institution codes, and interpersonal and tactical communication, and may include additional topics determined by legislature or regional needs. (Pass/No Pass Only)

CJA 038A

Tactical/Weapons Training

Unit(s): 0.1-0.5 Class Hours: 0.0-4.0 Lecture, 4.0-36.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in California Government Code Section 1031.

This course provides students with weapons and law enforcement tactical training to include range qualifications, nomenclature, positioning, trigger pull, and tactics planning. POST required training. (Pass/No Pass Only)

CJA 038B

Basic SWAT Course

Unit(s): 2.0 Class Hours: 16.0 Lecture, 64.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C and, Ability to lawfully possess fully automatic firearms, explosive ordinance, and a baton in the State of California or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Recommended Preparation: Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Students may be exposed to tear gas and/or pepper spray. Students should have the ability to participate in strenuous activities such as kneeling, lying in a prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons.

A Peace Officer Standards and Training certified course to train peace officers to become a member of a Special Weapons and Tactics team.

CJA 038C

Firearms-Sighting Systems

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C.

To inform students of the advantages and disadvantages and training considerations related to using a Miniaturized Red Dot Sight on a handgun. (Pass/No Pass Only)

CJA 038D

Weapon Mounted Light Transition Course

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C.

A Peace Officer Standards and Training course to train peace officers in the use of a weapon mounted light system. (Pass/No Pass Only)

CJA 039A

First Aid/CPR Refresher

Unit(s): 0.1 Class Hours: 1.0 Lecture, 7.0 Lab total.

Prerequisite: CJA099A, or CJA055B, or CJA055D, or CJA069B with a minimum grade of C, or their equivalent with a grade of Pass

Course is designed to refresh first aid and CPR training.

CJA 039B

First Aid Refresher

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

Course is designed to refresh first aid instruction for sworn and civilian law enforcement personnel.

CJA 039C

Emotional Wellness for Law Enforcement

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

Course is designed to help law enforcement personnel understand the impact and trauma of stress and the methodologies used to cope with various situations.

CJA 040A

Basic Peer Support Training

Unit(s): 0.4 Class Hours: 2.5 Lecture, 13.5 Lab total.

This course is designed to prepare members of a support team to respond and effectively support the psychological recovery and resilience of law enforcement personnel following a large scale critical incident. A combination of may be taken a maximum of four enrollments.

CJA 040B

Post Critical Incident Response for Peer Support

Unit(s): 0.2 Class Hours: 2.0 Lecture, 6.0 Lab total.

This course is designed to provide members of a Peer Support Team with advanced knowledge and techniques to support the psychological recovery and resilience of law enforcement personnel following a large scale critical incident. A combination of may be taken a maximum of four enrollments.

CJA 055A

Driver Training/Force Option II

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0-6.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in Government Code Section 1031.

Course is designed to update student's skills in the area of emergency driving and use of force. (Pass/No Pass Only)

CJA 055B

Correctional Services Assistant Academy

Unit(s): 8.0-8.5 Class Hours: 30.0 Lecture, 330.0-370.0 Lab total.

Prerequisite: Students will need to successfully complete agency written test, oral screening, physical agility test, background investigation, medical, and psychological testing.

This course is designed to train new civilian employees in aspects of working in a criminal justice custody environment in a California jail.

CJA 055D

Sheriff Special Officer Academy

Unit(s): 8.5-9.0 Class Hours: 15.0 Lecture, 385.0-401.0 Lab total.

Prerequisite: Students will need to successfully complete agency written test, oral screening, physical agility test, background investigation, medical and psychological testing.

In coordination with California POST, this course provides training and certification for new sheriff special officers.

CJA 055E

Sheriff Special Officer Transition Course

Unit(s): 2.5-3.0 Class Hours: 14.0 Lecture, 106.0-146.0 Lab total.

Prerequisite: CJA 055B with a minimum grade of C.

This course is designed to provide students with the P.O.S.T. certified training required to transition from the Custody Service Assistant position to the Sheriff Special Officer position.

CJA 059

Law Enforcement Supervisory Course

Unit(s): 3.5 Class Hours: 48.0 Lecture, 32.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

P.O.S.T. approved course for law enforcement personnel newly appointed to a first-level supervisory position. Topics focus on understanding the roles of law enforcement personnel, and providing appropriate training and supervision in critical field situations.

CJA 060

Basic Police Motorcycle Operator Course

Unit(s): 1.5 Class Hours: 9.5 Lecture, 70.5 Lab total.

Prerequisite: CJA 099A with a minimum grade of C.

This course provides the knowledge, skills and proficiency needed to safely operate a police motorcycle during the performance of enforcement duties. The intention of the course is to produce a safe and confident rider for all law enforcement motorcycle duties. (Pass/No Pass Only)

CJA 060A

Motorcycle Instructor Training Course

Unit(s): 1.5 Class Hours: 7.5 Lecture, 72.5 Lab total.

Prerequisite: CJA 060 with a minimum grade of C.

This course is designed to provide experienced motorcycle officers with the knowledge, skill, and proficiency to instruct new motorcycle enforcement officers with the skills and safe practices required to operate a police or Sheriff's Department motorcycle. (Pass/No Pass Only)

CJA 066

Basic Course Requalification

Unit(s): 5.5 Class Hours: 70.0 Lecture, 66.0 Lab total.

Prerequisite: Students must have successfully completed CJA 99A Basic Academy, or CJA 100D Modular 1 Academy, or the equivalent of either course as determined by the Assistant Dean of Criminal Justice. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Students must be free of felony convictions, possess a valid Driver's License, undergo a fingerprint and criminal history check, and obtain clearance from a licensed physician indicating capacity to participate in intensive physical activity. Students must furnish all of their own equipment, including ammunition and firearm. This course is designed to meet state requirements for persons qualifying under POST regulation 1008. Students must be physically able to participate in all classroom activities, including use of impact weapons, handcuffing, restraint devices, control holds, takedowns, firearm retention, and firearm takeaways.

This course is certified by the Commission on Peace Officers Standards and Training (POST) and re-certifies students who graduated from a basic academy more than three years ago. This course also re-certifies students who have been employed as a peace officer and are returning after a break of more than three years.

CJA 068B

Police Report Writing

Unit(s): 0.2-0.5 Class Hours: 1.0-2.0 Lecture, 7.0-22.0 Lab total.

To develop practical, precise report writing techniques as well as general writing skills applicable to law enforcement.

CJA 068C

Traffic Collision Investigation

Unit(s): 0.5 Class Hours: 3.0 Lecture, 37.0 Lab total.

This course is designed to provide the student with the knowledge and ability to investigate traffic collisions. Prior to attending the course students should be familiar with the basic skills provided in Learning Domain #29 (Traffic Collision Investigation) from the POST basic police academy.

CJA 068D

Cybercrime Investigations for First Responders

Unit(s): 0.1 Class Hours: 8.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Course is designed to provide law enforcement first responder with the knowledge and ability to respond to a cybercrime incident. Students will learn their role as a first responder, how cybercrimes are committed, identify persons to be interviewed, and how to gather and protect cybercrime evidence. This course is POST certified.

CJA 068E

Criminal Investigations

Unit(s): 0.2-1.0 Class Hours: 4.0 Lecture, 0.0-36.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or, Ability to lawfully possess a firearm and baton in the State of California or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Recommended Preparation: Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Students may be exposed to tear gas and/or pepper spray. Students should have the ability to participate in strenuous activities such as kneeling, lying in a prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons.

This course is designed to provide students with state certified instruction in conducting criminal investigations.

CJA 069A

Continuing Professional Training for Corrections

Unit(s): 0.2-0.5 Class Hours: 4.0 Lecture, 0.0-20.0 Lab total.

Prerequisite: CJA 099A or CJA 055B or CJA 055D or CJA 069B or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Medical Clearance from a licensed physician indicating capacity to participate in intensive physical activity.

Course covers all aspects of correctional officers training as required by the State of California (STC): Policies, legal update, case law, communication skills, transportation, arrest and control and weapons training.

CJA 069B

Corrections Officer CORE Course Enforcement

Unit(s): 9.0 Class Hours: 120.5 Lecture, 79.5 Lab total.

Prerequisite: Medical clearance from a licensed physician indicating capacity to participate in intensive physical activity.

This course is certified with Standards & Training for Corrections (STC) and meets the requirements for Basic Corrections Officer Core Course. Course is presented in cooperation with the Orange County Sheriff's Department.

CJA 069C

Prison Rape Elimination Act Training

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Course is designed to provide employees assigned to work in a custody facility with the information they need to comply with the Prison Rape Elimination Act (PREA).

CJA 069D

Jail Security for Professional Staff

Unit(s): 0.2 Class Hours: 3.0 Lecture, 5.0 Lab total.

Course is designed to provide non-sworn law enforcement personnel with basic skills to operate in and around a custody facility.

CJA 069E

Self-Defense Strategies

Unit(s): 0.1 Class Hours: 8.0 Lab total.

Prerequisite: Ability to legally possess a baton in the State of California. Obtain a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous activities such as kneeling, lying in prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons. Student will be exposed to tear gas and pepper spray.

Course is designed to provide law enforcement personnel with strategies to escape physical attack while working in and around a custody facility.

CJA 076A

Police K-9 Training

Unit(s): 4.0-14.0 Class Hours: 8.0-20.0 Lecture, 192.0-700.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C.

Intensive training for law enforcement personnel in the handling, deployment, and care of a police service dog. Training is required for assignment as a canine officer. Curriculum includes basic handler, narcotics, and explosives instruction.

CJA 076B

Canine Agitator Training

Unit(s): 0.3-1.5 Class Hours: 2.0-8.0 Lecture, 14.0-72.0 Lab total.

Course is designed to provide students with instruction required to serve as an agitator in a police dog and/or sport dog training environment under the direct supervision of a canine training instructor.

CJA 083B

Arrest and Control Techniques (ACT) Instructor Training

Unit(s): 1.5 Class Hours: 9.0 Lecture, 61.0-71.0 Lab total.

Prerequisite: CJA 055B, CJA 055D, CJA 069B, CJA 099A with a minimum grade of C, or their equivalent with a grade of Pass.

Course designed to prepare instructors and develop teaching skills focusing on arrest and control technique expertise, application, and assessment in a law enforcement instructional environment. (Pass/No Pass Only)

CJA 083C

First Aid/ Cardio-Pulmonary Resuscitation (CPR) Instructor Training

Unit(s): 0.5 Class Hours: 1.0-2.0 Lecture, 22.0-38.0 Lab total.

This course prepares instructors and develops their teaching skills by focusing on the assessment and treatment of medical emergencies in a law enforcement instructional environment. (Pass/No Pass Only)

CJA 088

Campus Law Enforcement Update

Unit(s): 2.0 Class Hours: 32.0 Lecture, 8.0 Lab total.

Prerequisite: CJA 099A or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

This course is designed to expand the knowledge of peace officers working a campus environment. The course will include a history of campus law enforcement, legal authority, laws and liability, responsibility in learning environment, campus conduct, emergency response tactics, and the discipline process as it relates to students.

CJA 090

Academy Tactical Officer Training

Unit(s): 0.5 Class Hours: 2.0 Lecture, 38.0 Lab total.

Prerequisite: CJA 099A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in Government Code Section 1031.

This course is designed to prepare students to serve as tactical officers in a California Peace Officers Standards and Training (CA POST) accredited police academy training environment. (Pass/No Pass Only)

CJA 098-00

Topic Course

Unit(s): 0.1-2.0 Class Hours: 0.0-40.0 Lecture, 0.0-40.0 Lab total.

Varies with topic.

CJA 099

OCSD Basic Pre-Academy

Unit(s): 2.5 Class Hours: 12.5 Lecture, 107.5 Lab total.

Prerequisite: Students sponsored by California law enforcement agencies must successfully complete required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their required uniforms and equipment. Students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.

The course is designed to familiarize students with the duties and responsibilities associated with attending a basic police academy. Course instruction will include Drill and Ceremony, Introduction to Report Writing, Academy Protocol, Physical Training, and Program Overview.

CJA 099A

Basic Police Academy

Unit(s): 29.5-31.5 Class Hours: 311.0-321.0 Lecture, 673.0-739.0 Lab total.

Prerequisite: CJA 010; CJA 026A; CJA 099 with a minimum grade of C. Students sponsored by California law enforcement agencies must meet P.O.S.T. hiring requirements. Self-sponsored students must successfully complete CJA 010, CJA 026A, CJA 099 and required college screening procedures including interview, written test, medical evaluation, psychological evaluation, and DOJ livescan. Self-sponsored students' applications will be evaluated and screened by Criminal Justice Academies Director and Academy Fitness Instructor to assure students are sufficiently prepared. Self-sponsored students must meet all required prerequisites before entering or continuing the course.

Student will receive instruction in all areas of criminal justice, as required by California Peace Officers Standards and Training (CA POST), for entry-level law enforcement officers. This course is offered in partnership with the Orange County Sheriff's Department.

CJA 099B

Level 3 Modular Police Academy

Unit(s): 6.0-6.5 Class Hours: 71.5 Lecture, 96.5-112.5 Lab total.

Prerequisite: Students sponsored by California law enforcement agencies must meet Peace Officers Standards and Training (POST) hiring requirements. Self-sponsored students must successfully complete required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their own required uniforms, equipment, and ammunition. All students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.

The first module of the POST Certified Modular Police Academy Program.

CJA 099C

Level 2 Modular Police Academy

Unit(s): 6.5-7.0 Class Hours: 61.5 Lecture, 150.5-166.5 Lab total.

Prerequisite: CJA 099B with a minimum grade of C with a minimum grade of C, or Commission on Peace Officers' Standards and Training (POST) Certified Module 2 Police Academy Program or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Students sponsored by California law enforcement agencies must meet the POST hiring requirements. Self-sponsored recruits must successfully complete the required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their own required uniforms, equipment, and ammunition. All students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.

The second module of the California POST Modular Police Academy Program.

CJA 099D

Level 1 Modular Police Academy

Unit(s): 14.0-14.5 Class Hours: 124.0 Lecture, 314.0-334.0 Lab total.

Prerequisite: CJA 099C with a minimum grade of C, or Commission on Peace Officers' Standards and Training (POST) Certified Module 2 Police Academy Program or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Students sponsored by California law enforcement agencies must meet the POST hiring requirements. Self-sponsored recruits must successfully complete the required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their own required uniforms, equipment, and ammunition. All students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.

The third and final module of the California POST Certified Modular Police Academy Program.

CULINARY ARTS (CULN)

CULN 100

Introduction to Culinary Arts and Hospitality

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Practices and procedures for individuals interested in a career in the Culinary Arts and Hospitality or allied fields. Includes field trips to industry sites and interaction with professionals in the field. CSU

CULN 110 (C-ID HOSP 110)

Food Safety and Sanitation

Formerly: Food Sanitation and Safety

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Sanitation practices affecting individual operations. Prevention and control of foodborne illnesses through flow of food and HACCP management. Same as Nutrition 110). CSU

CULN 120

Restaurant Management and Culinary

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: CULN 110 with a minimum grade of C.

Students will explore, learn, practice, and apply the management and culinary skills needed for a career in the Restaurant and Food Service Industry. Laboratory work will include different cooking techniques and traditional food preparations for different sectors in the Industry. CSU

CULN 130

Advanced Culinary and Restaurant Management

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: CULN 110 with a minimum grade of C.

Advanced food production techniques to be utilized in planning, costing, and implementing a wide variety of catered functions. CSU

CULN 140

Introduction to Baking & Pastry

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: CULN 110 or NUTR 110 with a minimum grade of C.

This course covers fundamental baking skills for students who intend to specialize in baking and pastry making for commercial production. Production of yeast and quick breads, cakes, cookies, pies, and pastries, as well as decorating and icings are undertaken. Gourmet baked items and pastries are produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management, and will prepare students for entry level baking position in the food industry as a baker or pastry chef. CSU

CULN 150

Principles of Pantry

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: NUTR 110 or CULN 110 with a minimum grade of C.

Introduction to the basic skills needed for a restaurant pantry station. The theory and practical skills required to produce quality salads, sandwiches, and cold sauce emphasized. CSU

CULN 160

Principles of Beverage Service

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to the basic skills needed for service of alcoholic beverages. The theory and practical skills required to identify and recommend different types of alcoholic and non-alcoholic beverages served in the food service/hospitality industry. Field trips may be required. CSU

CULN 190

Food & Beverage Production Management

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Prerequisite: CULN 110 or NUTR 110 with a minimum grade of C.

The course provides students with hands-on experience and training in customer service, catering special events, dining room service, buffet presentation, food production, management, and job readiness skills. CSU

CULN 200

Business Practices for Culinary Arts Professionals

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course offers insight into the various aspects of supervision in the hospitality industry. Supervisory roles, responsibilities, and essential managerial skills shall be discussed. The goal of the course is to equip students with the necessary authoritative and decision-making skills to be used in the workplace. CSU

CULN 299

Cooperative Work Experience Education

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

Prerequisite: Six units completed in Culinary Arts or Nutrition & Food degree/certificate courses.

This work experience course of supervised employment assists students to acquire desirable work habits, attitudes and skills in culinary arts. A student can earn 1 to 4 units per semester, up to a maximum of 16 units total. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. Student repetition is allowed per Title 5, Section 55253. CSU

DANCE (DNCE)

DNCE 009A

Dance Laboratory I

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: By audition only.

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Beginning level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. Requires audition or instructor approval prior to enrollment. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

DNCE 009B

Dance Laboratory II

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: DNCE 009A with a minimum grade of C.

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Intermediate level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. Requires audition. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

DNCE 009C

Dance Laboratory III

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: DNCE 009B with a minimum grade of C.

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Intermediate -advanced level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

DNCE 009D

Dance Laboratory IV

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: DNCE 009C with a minimum grade of C.

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Advanced level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

DNCE 100

Dance History and Appreciation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The development of dance in Western Europe and the U.S. from ancient times to the present. Explores dance as an emerging art form from the Renaissance to the 21st Century. Emphasizes the contemporary dance heritage of the United States. CSU/UC

DNCE 100H

Honors Dance History and Appreciation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched honors course featuring intensive study of theatrical dance development in Western Europe and the U.S. from ancient times to the present. Utilizes writing, reading, critical thinking skills, required research, and student-initiated discussions in a seminar setting to explore dance history from cultural and aesthetic points of view. CSU/UC

DNCE 102

Introduction to Dance Forms

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An introduction to historical and contemporary dance forms through lecture and activity. Experience in ballet, modern, jazz, hip-hop, improvisation, folk, ethnic and/or ritual dance styles. Recommended for future teachers. CSU/UC

DNCE 105

World Dance and Cultures

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Dance around the world is studied in its cultural/social context. Emphasis on the different ways dance is used to express ideas about religion, cultural identity, myths, and social ideals. Includes cultures from Africa, Asia, Europe, India, Latin America, Middle East, and North America, plus a focus on Southern California. CSU/UC

DNCE 106A

Introduction to Modern Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to modern dance emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to choreographic principles and the historical/cultural context of American modern dance. For the student with little or no dance experience. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

DNCE 106B

Introduction to Modern Dance

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

An introduction to modern dance emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to choreographic principles and cultural context of American modern dance. Dance 106B is a refinement of skills learned in Dance 106A. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

DNCE 107

Dance Concert Performance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 45.0 Lab total.

Prerequisite: Audition.

Formal dance concert performance experience for dance students. Includes both rehearsal process and a minimum of three on-stage public performances. A combination of may be taken a maximum of four enrollments. A combination of DNCE 107 may be taken a maximum of four enrollments. (Pass/ No Pass Only) CSU/UC

DNCE 108A

Introduction to Ballet

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Introduction to basic ballet emphasizing movement technique, dance vocabulary, and creative individual expression. Student learns basic ballet-barre exercises, center work, and short dance works. Includes an introduction to choreographic principles and cultural context of ballet. Prepares the student for Dance 108B. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

DNCE 108B

Introduction to Ballet

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Continuation of instruction in basic ballet technique, dance vocabulary, and creative individual expression. Student learns ballet- barre exercises, center work, and short dance works. Includes choreographic principles and cultural context of ballet. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

DNCE 109A

Pilates Mat I

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to the mat exercises developed by Joseph Pilates to build strength, stability, coordination, and control in the core muscles of the body. Applicable to dance and general body conditioning. A combination of DNCE 109A, DNCE 109B, and DNCE 109C may be taken a maximum of four enrollments. CSU/UC

DNCE 109B

Pilates Mat II

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Continued refinement of skills learned in Pilates Mat I with an emphasis on building strength, stability, coordination, and control in the core muscles of the body. Applicable to dance and general body conditioning. A combination of DNCE 109A, DNCE 109B, and DNCE 109C may be taken a maximum of four enrollments. CSU/UC

DNCE 109C

Pilates Mat III

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Intermediate level course in the mat exercises developed by Joseph Pilates to build strength, stability, coordination, and control in the core muscles of the body. Applicable to dance and general body conditioning. A combination of DNCE 109A, DNCE 109B, and DNCE 109C may be taken a maximum of four enrollments. CSU/UC

DNCE 110

Beginning Mexican Folk Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduces techniques, forms, and regional/ historical backgrounds of dances from various regions of Mexico. Students will perform at least 3 different traditional dances. A combination of DNCE 110, DNCE 111, and DNCE 117 may be taken a maximum of four enrollments. CSU/UC

DNCE 111

Intermediate Mexican Folk Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 110 with a minimum grade of C.

Continued study of techniques, forms, and regional/historical backgrounds of dances from various regions of Mexico. Students will perform at least 3 different and more complex traditional dances. A combination of DNCE 110, DNCE 111, and DNCE 117 may be taken a maximum of four enrollments. CSU/UC

DNCE 112

Ethnic Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to the dance movement and techniques of selected ethnic groups from around the world, with emphasis on skill development and cultural/historical context. Focus chosen from African dance, Asian court or folk dance, dance forms from India, European folk dance, or Polynesian dance. No experience necessary. CSU/UC

DNCE 113A

Flamenco Dance I

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to dance movements, techniques, and terminology of Flamenco dance, music, rhythms, and song. Emphasis on dance skills and cultural relationship between Spain and the Gypsies. Prepares the student for Dance 113B. A combination of DNCE 113A and DNCE 113B may be taken a maximum of four enrollments. CSU/UC

DNCE 113B

Flamenco Dance II

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total

Recommended Preparation: DNCE 113A with a minimum grade of C.

Continued study of Flamenco culture through dance, music, and song, with emphasis on particular rhythms. Students will explore the dynamics and structure of these rhythms and learn a choreographed dance. A combination of DNCE 113A and DNCE 113B may be taken a maximum of four enrollments. CSU/UC

DNCE 117

Introduction to Middle Eastern Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to Middle Eastern Dance, including belly dance and folkdance forms. Emphasis is on movement technique, vocabulary, and creative expression. Also explores the fusion of Western and Middle Eastern dance forms. No experience necessary. A combination of DNCE 110, DNCE 111, and DNCE 117 may be taken a maximum of four enrollments. CSU/UC

DNCE 118

Introduction to Caribbean and Latin Dance Styles

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to Caribbean and Latin social dance styles, including musicality, partnering, and patterns. Emphasis is on movement technique, vocabulary and creative expression. Historical and contemporary forms such as Salsa, Merengue, Rhumba, Cumbia and Tango are studied. A combination of DNCE 118, DNCE 123, and DNCE 124 may be taken a maximum of four enrollments. CSU/UC

DNCE 119A

Introduction to Jazz Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to jazz dance technique emphasizing elementary movement technique, vocabulary, and creative expression. Includes an introduction to composition and cultural context of jazz dance. For students with little or no dance experience. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

DNCE 119B

Introduction to Jazz Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

A refinement of basic jazz dance, emphasizing movement technique, vocabulary, and creative expression. Includes composition, the cultural context of jazz dance, and contemporary jazz dance forms. Movement repertoire differs from 119A. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

DNCE 120A

Introduction to Hip-Hop Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to Hip-Hop dance emphasizing movement technique, dance vocabulary and creative expression. Includes learning routines and the history and culture of Hip-Hop dance. No prior experience necessary. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

DNCE 120B

Intermediate Hip-Hop Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

A continuation of the study of Hip-Hop dance emphasizing movement technique, dance vocabulary and creative expression. Includes more complicated movements, advanced dance combinations and an overview of the historical and cultural context of Hip-Hop. Beginning Hip- Hop recommended. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

DNCE 122

Commercial Contemporary Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Instruction for the advanced dance student in commercial contemporary dance including the technical steps, styles, audition techniques, and performance skills necessary to be a successful dancer in commercial settings such as industrials, cruise ships, music videos, etc. A combination of DNCE 122 may be taken a maximum of four enrollments. CSU/UC

DNCE 123

Introduction to Salsa Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to Salsa dance, including musicality, partnering, and patterns. Emphasis is on movement technique, dance vocabulary, and creative expression. Historical and contemporary forms are studied. A combination of DNCE 118, DNCE 123, and DNCE 124 may be taken a maximum of four enrollments. CSU/UC

DNCE 124

Intermediate Salsa Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Continued study in Salsa dance, including musicality, partnering, and patterns. Emphasis is on movement technique, vocabulary, and expression. Includes more complicated movements, complex patterns, and advanced dance combinations. Introduction to Salsa recommended. A combination of DNCE 118, DNCE 123, and DNCE 124 may be taken a maximum of four enrollments. CSU/UC

DNCE 130

Dance Improvisation

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to structured dance improvisation, emphasizing movement invention, creative problem solving, group dynamics, and contact improvisation. Prior completion of dance technique course highly recommended. read A combination of DNCE 130, DNCE 202A, and DNCE 202B may be taken a maximum of four enrollments. CSU/UC

DNCE 140

Dance Repertory Workshop

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Intensive course which emphasizes learning selected repertory. Students learn one or more complete choreographic works of concert quality with instruction in specific performance styles, culminating in a public performance. CSU/UC

DNCE 180

Professional Studio Practices

Unit(s): 2.0 Class Hours: 36.0 Lecture, 36.0 Lab total.

Learn the procedures, management, and expectations of working in private dance studios. Applicable for both the dance educator and the professional dancer. CSU

DNCE 201A

Ballet I

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to ballet technique and terminology, including basic barre work, center work, and combinations en diagonale. Includes basic alignment, use of turnout, coordination, and ballet terminology. Dance 201A prepares the student for Dance 201B. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

DNCE 201B

Ballet II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 201A with a minimum grade of C.

Continuation of beginning ballet technique and terminology, including barre work, center work, and combinations en diagonale. Includes basic alignment, use of turnout, coordination, and ballet terminology. Dance 201B utilizes additional combination work and prepares the student for Dance 213. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

DNCE 202A

Choreography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: Any course in an Intro to Dance or Beginning Level Dance Technique recommended with a minimum grade of C.

A class for the general student interested in dance that defines and explores the elements involved in creating a dance. Students will develop basic choreographic skills and apply those skills to express their ideas through dance movement. Compositions created by students will be performed in the studio. Open to non-majors. A combination of DNCE 130, DNCE 202A, and DNCE 202B may be taken a maximum of four enrollments. CSU/UC

DNCE 202B

Choreography for Dance Majors

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

A composition class for dance majors which defines and explores the elements involved in creating a dance. Students will develop choreographic skills emphasizing individual expression of ideas through dance movement. Advanced level assignments of solo and group compositions are created by dance major students and performed in the dance studio. A combination of DNCE 130, DNCE 202A, and DNCE 202B may be taken a maximum of four enrollments. CSU/UC

DNCE 204A

Dance Production I

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Concert dance production experience culminating in public performances in Phillips Hall Theatre as part of the Spring Student/Faculty Dance Concert. Includes production basics, with an emphasis on performance techniques and working with faculty/student choreographers to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

DNCE 204B

Dance Production II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: DNCE 202B or by audition only.

Concert dance production experience culminating in public performances in Phillips Hall Theatre as part of the Spring Student/Faculty Dance Concert. Includes production basics, with an emphasis on choreography to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

DNCE 204C

Dance Production III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Continued study and refinement of concert dance production experience culminating in public performances in Phillips Hall Theater as part of the Spring Student/Faculty Dance Concert. Includes production elements, with an emphasis on performance techniques and working with student and/or faculty choreographers to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

DNCE 204D

Dance Production IV

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0

Prerequisite: By audition only.

Continued refinement and development of concert dance production experience culminating in public performances in Phillips Hall Theater as part of the Spring Student/ Faculty Dance Concert. Includes production elements with an emphasis on choreography to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

DNCE 205A

Dance Touring Ensemble I

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Pre-professional ensemble to provide performance experience in various settings such as high school lecture presentations, dance festivals, or off-campus performing venues. For advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

DNCE 205B

Dance Touring Ensemble II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Pre-professional ensemble to provide continued performance experience in various settings such as high school lecture presentations, dance festivals, or off-campus performing venues. For advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

DNCE 205C

Dance Touring Ensemble III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Pre-professional ensemble to provide performance and teaching experience in various settings such as high school lecture-presentations, dance festivals, or off-campus performing venues. Emphasis on rehearsal directing, co-teaching, and leadership roles for advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

DNCE 205D

Dance Touring Ensemble IV

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Pre-professional ensemble to provide continued performance and teaching experience in various settings such as high school lecture-presentations, dance festivals, or off-campus performance venues. Emphasis on continued experiences in rehearsal directing, co-teaching, and leadership roles for advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

DNCE 206A

Modern Dance I

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

A beginning level modern dance class emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to choreographic principles and cultural context of modern dance. Students learn modern dance exercises and short dance combinations. Prepares the student for Dance 206B. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

DNCE 206B

Modern Dance II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0

Recommended Preparation: DNCE 206A with a minimum grade of C.

Continued study in modern dance emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to somatic approaches to dance training to support body connectivity. Dance 206B is a continuation and refinement of learning longer dance combinations at the beginning-intermediate level. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

DNCE 209

Modern Dance III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 206A; DNCE 206B with a minimum grade of C.

Provides the continuing modern dance student opportunity to concentrate on more advanced steps and development of technical skills and somatic approaches to dance at the intermediate level. Emphasizes combinations, choreography, and performance style. Dance 206A/B recommended. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

DNCE 210

Modern Dance IV

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 209 with a minimum grade of C.

Continuing study of modern dance technique including more complicated combinations and advanced material. Emphasizes somatic approaches to dance training, performance expression, and comparison of modern dance styles. Dance 209 recommended. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

DNCE 213

Ballet III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 201B with a minimum grade of C.

Study of ballet technique and terminology on the intermediate level-advanced. Course includes center adagio, jumps with beats, pirouettes, and movement combinations. Intermediate-advanced variations are also learned and performed in class. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

DNCE 214

Ballet IV

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 213 with a minimum grade of C.

Continuing study of technique and terminology at the intermediate-advanced level. Emphasizes longer, more intricate movement combinations and development of balletic style. Stresses expression and technique at intermediate-advanced level. Includes ballet history and comparisons of various ballet styles. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

DNCE 219A

Jazz Dance I

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to jazz dance emphasizing movement technique, vocabulary, and creative expression. Includes an introduction to choreographic principles and cultural context of jazz. Historical and contemporary forms are studied. Videos, concerts, and master classes enrich the course. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

DNCE 219B

Jazz Dance II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 219A with a minimum grade of C.

Continued study in beginning jazz dance emphasizing movement technique, vocabulary and creative expression. Includes an introduction to choreographic principles and cultural context of jazz. Historical and contemporary forms are studied. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

DNCE 220

Jazz Dance III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 219B with a minimum grade of C.

Instruction for the continuing jazz dance student in intermediate jazz steps and further development of technical skills. Emphasis will be placed on combinations, choreography, performance style, and cultural context of jazz. Historical and contemporary forms are studied. Dance 219B recommended. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

DNCE 221

Jazz Dance IV

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 220 with a minimum grade of C.

Continuing study of jazz dance concentrating on advanced combinations with emphasis on movement technique, vocabulary, and performance style. Includes study of choreography, cultural context of jazz, and comparisons of historical and contemporary jazz styles. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments.CSU/UC

DNCE 232

Partnering

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 201A; DNCE 206A; DNCE 219A with a minimum grade of C.

The study of partnering in modern, jazz, and classical ballet choreography. Includes duets, groups, and choreography involving any body contact or shifting of weight from one individual to another. A combination of may be taken a maximum of four enrollments. CSU/UC

DNCE 240A

Repertory I

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Students develop rehearsal and performance skills through learning a repertoire of dances. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments.CSU/UC

DNCE 240B

Repertory II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Continued refinement of rehearsal and performance skills through learning a more difficult repertoire of dances. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

DNCE 240C

Repertory III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Students learn intermediate-advanced performance skills through small group, duet and/or solo repertoire. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

DNCE 240D

Repertory IV

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: By audition only.

Continued study in intermediate-advanced performance skills through small group, duet and/or solo repertoire. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

DNCE 250A

Hip-Hop Dance I

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to hip-hop dance emphasizing movement technique, vocabulary, and creative expression. Includes an introduction to choreographic principles, improvisation, and cultural context of hip-hop. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

DNCE 250B

Hip-Hop Dance II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 250A with a minimum grade of C.

Continued study in hip-hop dance emphasizing movement technique, vocabulary, and creative expression. Includes improvisation, more difficult combinations, student compositions, and the cultural context of hip-hop. Movement repertoire differs from 250A. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

DNCE 251

Hip-Hop Dance III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 250B with a minimum grade of C.

Instruction for the continuing dance student in intermediate level hip-hop dance technique and further development of performance skills. Emphasis will be placed on combinations, choreography, performance style, and cultural context of hip-hop. Dance 250B recommended A combination of DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

DNCE 260

Somatic Practices in Dance

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course uses the principles of Bartenieff Fundamentals to develop efficient movement patterning within the body and to encourage and support personal expression, meaning- making, and an integration of the body and mind. Includes core concepts of the Laban Movement Analysis System which embodies all movement possibilities through Body, Effort, Shape, and Space. Knowledge in Anatomy/ Physiology or Kinesiology, and/or training in intermediate/advanced dance techniques are highly recommended. A combination of DNCE 260, DNCE 261, DNCE 262 and DNCE 263 may be taken a maximum of four enrollments CSU/UC

DNCE 261

Somatic Practices in Modern Dance

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: DNCE 260 with a minimum grade of C.

Application of somatic practices learned in Dance 260 to intermediate/advanced level modern dance techniques. A combination of DNCE 260, DNCE 261, DNCE 262, and DNCE 263 may be taken a maximum of four enrollments. CSU/UC

DNCE 262

Somatic Practices in Ballet

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: DNCE 260 with a minimum grade of C.

Application of somatic practices learned in Dance 260 to intermediate/advanced level ballet techniques. A combination of DNCE 260, DNCE 261, DNCE 262, and DNCE 263 may be taken a maximum of four enrollments. (Pass/No Pass Only) CSU/UC

DNCE 263

Somatic Practices in Jazz Dance

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: DNCE 260 with a minimum grade of C.

Application of somatic practices learned in Dance 260 to intermediate/advanced level jazz dance techniques. A combination of DNCE 260 and DNCE 261 and DNCE 262 and DNCE 263 may be taken a maximum of four enrollments. CSU/UC

DNCE 270

Dance Practicum

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Prerequisite: DNCE 180 with a minimum grade of C.

Directed study at selected locations providing workplace experience as performer, choreographer, production assistant, dance management intern, dance team assistant, dance studio assistant, dance teacher, or somatics teaching assistant. Before placement, skills are assessed to match abilities with project or job needs. CSU/UC

DNCE 290

Choreography for the Camera

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: Completion with a grade of C or better of TELV 140.

Recommended Preparation: DNCE 202B.

An introduction to dance for the camera, utilizing both practical and theoretical concepts of choreography and video production as it pertains to filmmaking. Through dance film analysis, studio-based exercises, viewings, and discussions, specific approaches to translating, contextualizing, framing, and structuring movement in the cinematic format will be explored. Designed for the dancer with intermediate/advanced technical training and choreographic skills. CSU/UC

DNCE 291

Dance Film Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: DNCE 290 with a minimum grade of C.

A capstone course, where students build upon skills and concepts developed in previous camera, editing, cinematography, and choreography for the camera courses. Students produce and direct dance film productions. CSU/UC**DNCE 296**

Special Studies in Modern Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 210 with a minimum grade of C.

An advanced level course offering individualized and accelerated instruction in modern dance techniques. A combination of DNCE 296, DNCE 297, and DNCE 298 may be taken a maximum of four enrollments. CSU/UC

DNCE 297

Special Studies in Jazz Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 221 with a minimum grade of C.

An advanced level course offering individualized and accelerated instruction in jazz dance techniques. read A combination of DNCE 296, DNCE 297, and DNCE 298 may be taken a maximum of four enrollments. CSU/UC

DNCE 298

Special Studies in Ballet Dance

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 213; DNCE 214 with a minimum grade of C.

An advanced level course offering individualized and accelerated instruction in ballet dance techniques. A combination of DNCE 296, DNCE 297, and DNCE 298 may be taken a maximum of four enrollments. CSU/UC

DIESEL (DSL)

DSL 101

Truck Preventative Maintenance

Unit(s): 5.0 Class Hours:72.0 Lecture, 72.0 Lab total.

This course provides the student with basic knowledge and skills in light, medium, and heavy duty truck maintenance. Safety, inspections, and hands-on practice are emphasized. CSU

DSL 109

Medium/Heavy Duty Truck Brake Service

Formerly: Truck Chassis: Brake and Suspension Service

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the air and hydraulic brake systems used on modern medium and heavy duty trucks. Emphasis is placed upon utilizing the correct service and diagnostic procedures as required by the medium/heavy duty trucking industry. CSU

DSL 110

Medium/Heavy Duty Manual Drive Train Service

Formerly: Truck Chassis: Drive Train Service

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the drive train systems used on medium and heavy duty trucks. Primary focus includes the manual transmission, clutch, and rear axle systems. Correct service procedures and diagnosis of these systems are emphasized as required on modern medium and heavy duty vehicles. CSU

DSL 113

Allison Transmission Service

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

A course of study designed to familiarize the student with the operation, service, overhaul, and troubleshooting of Allison automatic transmissions. Hands-on procedures are emphasized. Students must furnish approved safety glasses. CSU

DSL 115

Introduction to Heavy Duty Mobile Hydraulics

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

This course presents the operation and service procedures for hydraulic devices found on heavy-duty diesel equipment and trucks. Hands-on procedures are emphasized. Student must furnish approved safety glasses. CSU

DSL 121

Mid-Range Diesel Engine Service

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Troubleshooting, service, and repair techniques for medium-duty diesel engines and fuel systems. Hands-on procedures and safety emphasized. Student must furnish approved safety glasses. CSU

DSL 122

Electronics Fundamentals

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Introduction to the basic operating principles of electrical and electronic devices used in modern vehicles. Hands-on digital multimeter testing is highlighted. Safe and correct use of tools and equipment by students will be emphasized. Students must furnish approved safety glasses. (Same as Auto 122) CSU

DSL 125

Medium/Heavy Duty Diesel Engine: Top End Service

Formerly: Heavy Duty Diesel Engine: Top End Service

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the diagnosis and service of heavy duty diesel engine top end systems. Emphasis is placed on hands-on practice of measurement, specifications, and proper procedures as required by industry. CSU

DSL 126

Medium/Heavy Duty Diesel Engine: Bottom End Service

Formerly: Heavy Duty Diesel Engine: Bottom End Service

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the diagnosis and service of heavy duty diesel engine bottom end systems. Emphasis is placed on hands-on practice of measurement, specifications, and proper procedures as required by industry. CSU

DSL 132

Diesel Fuel Injection Systems Service

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Theory, testing, and service of mechanical and electronic diesel fuel injection systems. Engine tune-up and troubleshooting techniques on current production medium and heavy-duty diesel engines. Hands-on procedures and safety are emphasized. Students must furnish approved safety glasses. CSU

DSL 140

Diesel Electrical Systems

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Diagnosis, service, and repair procedures for starting, charging, lighting, instruments, and multiplex systems. Wiring schematics, safety, and hands-on procedures are emphasized. Students must furnish approved safety glasses. CSU

DSL 160

Foundations of Mobile Air Conditioning and Refrigeration

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

This course focuses on the mobile air conditioning and refrigeration systems used on modern vehicles. The systems found on automobiles, light and heavy duty trucks, transport refrigeration units, and transit buses are covered in this course with hands-on practice. Safe handling of refrigerant as well as preparation for the EPA 608 and 609 exams are covered. Student must furnish approved safety glasses. This course assists the student in preparation for A7, T7, and H7 ASE exams. (Same as Auto 160) CSU

DSL 162

Air Conditioning and Heating

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Operation, testing, and servicing of truck cab air conditioning and heating systems as well as auxiliary power units. Safety, refrigerant recovery, special equipment, and controls will be covered. Applied air conditioning theory will also be covered. The EPA 609 certification is a segment of this course. This course helps prepare students for the T7 ASE certification exam. CSU

DSL 165

Transport Refrigeration

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Theory and operation of truck and trailer refrigeration, electrical, and microprocessor control systems used on current production Carrier and Thermo King units. Service, repair, and troubleshooting procedures used in industry will be covered. Hands-on procedures and safety are emphasized. CSU

DSL 202

Introduction to Coach Operations

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: The student must furnish approved safety equipment for the first meeting of the course. This equipment includes: Approved ANSI Standard Safety Glasses, Reflective Safety Vest, and Steel-Toed Shoes.

This course provides students with an overview of the Certified Maintenance courses CERT1 through CERT10. Covers the ground rules and expectations of the program. Transit bus vehicle and shop safety training is highlighted. This safety training is required for participation in all CERT1 though CERT10 courses. Familiarizes students with the proper and safe use of hand tools and equipment. Includes an overview of the functions and procedures for preventive maintenance on current transit buses. CSU

DSL 203

Transit Vehicle Electrical Systems

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course covers the functions and components of the electrical systems on current transit buses. Principles of electricity and safety are highlighted. An overview of troubleshooting techniques for both conventional and computer controlled buses are emphasized. This is the Certified Maintenance course CERT3. CSU

DSL 204

Transit Vehicle Air Systems

Unit(s): 0.5 Class Hours: 12.0 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course provides students with functions and components of the air systems on current transit buses. Principles of air supply and safety are emphasized. An overview of troubleshooting techniques for both conventional and computer controlled buses is highlighted. This is the Certified Maintenance course CERT4. CSU

DSL 205

Transit Vehicle Air Brake Systems

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course introduces the students to the operation of air brake systems found on current transit buses. Diagnosis, service, and repair procedures are emphasized. This is Certified Maintenance course CERT5. CSU

DSL 206

Transit Vehicle Automatic Transmissions

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course introduces the students to the basic theory of operation of the automatic transmissions currently used on transit buses. Diagnostic and troubleshooting techniques, repair, and service will be emphasized. This is the Certified Maintenance course CERT6. CSU

DSL 207

Transit Vehicle Engines

Unit(s): 2.5 Class Hours: 47.3 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course will introduce students to the basic theory of operation of current transit bus engines. Diagnostic and troubleshooting techniques, repair, and service will be emphasized. This is the Certified Maintenance course - CERT7. CSU

DSL 208

Transit Vehicle Heating, Ventilation, Air Conditioning

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course introduces the student to the basic theory of operation of heating, ventilation, and air conditioning systems used on current transit buses. Service, maintenance, and troubleshooting will be emphasized. This is the Certified Maintenance course - CERT8. CSU

DSL 209

Transit Vehicle Drive Train Suspension

Unit(s): 1.0 Class Hours: 21.0 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course introduces students to the basic theory of operation of transit bus drive train and suspension systems. Diagnostic techniques, repair, and service of current transit bus drive train and suspension systems will be emphasized. This is the Certified Maintenance course - CERT9. CSU

DSL 210

Transit Vehicle Wheelchair Lifts

Unit(s): 0.5 Class Hours: 12.0 Lecture total.

Prerequisite: DSL 202 with a minimum grade of C.

This course introduces the student to the basic theory of operation of wheelchair lifts and ramps currently used on transit buses. Service, maintenance, and troubleshooting will be emphasized. This is the Certified Maintenance course - CERT10. CSU

DSL 287

Alternative Fuels

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces the student to the various types of alternative fuels used in modern vehicles. Safety and operation are highlighted. Compressed Natural gas (CNG) is emphasized. LPG, LNG, Bio-diesel, Ethanol, and Hydrogen are also covered. This course prepares automotive as well as diesel students for industry. (Same as AUTO 287) CSU

DIGITAL MEDIA (DM)

DM 100

Introduction to Electronic Media: TV, Radio, Film, and the Internet

Formerly: TELV 100: Introduction to Electronic Media: TV, Radio, Film, and the Internet

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of historical development, impact, and business practices of TV, radio, film, and the Internet. Emphasizes career opportunities and basic studio operations. CSU

DM 101

TV and Society: A Visual History

Formerly: TELV 101: TV and Society: A Visual History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Evolution and impact of TV programming as business and art form in American society. Development of a visual literacy and appreciation of television's various formats (sitcom, westerns, soaps, dramas, mini-series) through, lecture, video viewings, and guest speakers. CSU

DM 103

History of Film to 1945

Formerly: TELV 103: History of Film to 1945

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey course exploring film as an art form and developing appreciation of historical, artistic, and technical advances from 1890s to 1945. CSU/UC

DM 104

History of Film from 1945 to Present

Formerly: TELV 104: History of Film from 1945 to Present

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A lecture/visual aids course exploring film as an art form and developing appreciation of historical, artistic and technical advances. CSU/UC

DM 110

Introduction to Television Production

Formerly: TELV 110: Introduction to Television Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Introduction to live, multi-camera production of television programs and operation of studio equipment. Includes overview of production theory, terminology and procedures, as well as hands-on training in use of cameras, audio, lighting, and control room apparatus for multi-camera productions. CSU/UC

DM 112

Introduction to Video Editing and Postproduction

Formerly: TELV 112, Introduction to Video Editing and Postproduction

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Fundamental methods and techniques used to edit video for TV, film, web and multimedia. Hands-on training in basic operation of digital, non-linear editing system and software. CSU

DM 115A (C-ID FTVE 130)

Single-Camera Production and Editing

Formerly: TELV 115A, Single-Camera Production and Editing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Fundamental approaches and techniques utilized in single-camera production for television, film, web and multi-media. Hands- on training in operation of portable digital video and audio production equipment, as well as lighting. CSU

DM 115B

Advanced Single-Camera Production and Editing

Formerly: TELV- 115B: Advanced Single- Camera Production and Editing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Advanced development of knowledge and skills in single-camera production technology and practices. Emphasis on professional production standards and technical advancements in digital media camera production. CSU

DM 120

Beginning Screenwriting for Digital Media

F*ormerly: TELV 120: Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Designed to acquaint students with fundamental approaches to writing scripts for television, motion pictures, the web, corporate videos and digital media. Emphasis on the development of outlines, treatments, and scripts for short format programs or segments of feature-length shows. CSU

DM 121

Intermediate Screenwriting for Digital Media

Formerly: TELV 121: Intermediate Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores professional requirements for scriptwriters and their relationship to the production, direction and development of scripts for TV, film, the web, corporate videos and digital media. Strengthens fundamental writing skills. Prior enrollment in DM 120 recommended. CSU

DM 123

Advanced Screenwriting for Digital Media

Formerly: TELV 123: Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores professional requirements for writing screenplays for TV, film, and the web plus scripts for corporate videos and digital media. Advanced individual projects enhance student writing skills and body of work. Prior enrollment in Digital Media 121 recommended. CSU

DM 125

Cooperative Work Experience- Occupational

Formerly: TELV 125: Cooperative Work Experience Occupational

Unit(s): 1.0-6.0 Class Hours: 60.0-450.0 Lab, 60.0-450.0 TBA total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. (Pass/No Pass Only) CSU

DM 130

Broadcasting for News & Sports

Formerly: TELV 130: Principles of Broadcast News

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Introduction to broadcast journalism for TV and digital platforms with emphasis on writing, editing, and technical production of media newscasts. Emphasizes both field and studio reporting. Prior or concurrent enrollment in Digital Media 110 recommended. CSU

DM 140

Cinematography

Formerly: TELV 140: Cinematography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Concepts and practice of cinema-graphic, filming, and lighting techniques as applied to single-camera film and digital production. CSU/UC

DM 142

Acting for the Camera

Formerly: TELV142: Acting for the Camera

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Techniques and disciplines of acting as applied to film and television production. Opportunity to practice and perform with emphasis on developing talents and skills required in acting for the screen (Same as Theatre Arts 113). CSU/UC

DM 150

Producing and Directing

Formerly: TELV 150: Producing and Directing for Television

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: DM 112; DM 115A with a minimum grade of C.

Emphasizes production planning and preparation, aesthetics, budgeting, and working with a production team. Practical experience in producing and directing studio and remote productions. Multiple directing/ producing assignments each semester. Prior or concurrent enrollment in Digital Media 112, and 115A recommended. CSU/UC

DM 152

Beginning Audio Production

Formerly: TELV 152: Beginning Audio Production

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Introduction to the theory and practice of audio production for radio, stage, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software. Same as Music 152. CSU/UC

DM 170

Drone Pilot License Test Prep

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

The class preps students to take the FAA Part 107 test, and other knowledge tests required by the FAA. To fly drones commercially, students need to pass an FAA drone pilot knowledge test. CSU

DM 171

Drone Pilot Training

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Learn the ins-and-outs of legally flying a drone. The Drone Pilot Training course covers FAA rules and regulations, settings and features of drones, and supervised hands-on flight instruction with a licensed drone pilot. Drones provided for the class. CSU

DM 175

Drone Cinematography & Editing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Drone flight techniques designed for the practice of cinema-graphic filming, production and post-production. CSU

DM 193

Motion Graphics with Adobe After Effects

Formerly: TELV 193: Motion Graphics with Adobe After Effects

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 195; TELV 112 with a minimum grade of C.

This graphics animation course covers the development of original motion graphics. Video editing skills are refined within the animation software to create animated clips for use in multiple media applications. Some experience in non-linear digital video editing is recommended, as well as some graphic design experience. (Same as Art 193) CSU/UC

DM 215

Advanced Single-Camera/Digital Cinema Production

Formerly: TELV 215: Advanced Single-Camera/ Digital Cinema Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: TELV 112; TELV 115A with a minimum grade of C.

Advanced single-camera digital cinematography production and post- production technology, workflow and aesthetics. Emphasis upon industry standards and approaches for television and cinema production with professional High Definition and Ultra High Definition/4K video cameras. Includes HD, DSLR and other large-sensor digital cinema cameras, such as RED. CSU

DM 230A

Beginning News & Sports Production

Formerly: TELV 230A: Broadcast News Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Beginning producing for broadcast journalism and sportscasting. Create content for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 130 recommended. CSU

DM 230B

Intermediate News & Sports Production

Formerly: TELV 230B: Broadcast News Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Intermediate producing for broadcast journalism and sportscasting. Create content for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 230A recommended. CSU

DM 230C

Advanced News & Sports Production

Formerly: TELV 230C: Broadcast News Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Advanced producing for broadcast journalism and sportscasting. Create content for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 230B recommended. CSU

DM 230D

Executive News & Sports Production

Formerly: TELV 230D: Broadcast News Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Executive producing for broadcast journalism and sportscasting. Oversee content creation for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 230C recommended. CSU

DM 240

Agency Film Production

Formerly: TELV 240: Agency Film Production

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This is a capstone course, where students will build upon skills and concepts developed in previous camera, editing and cinematography courses in order to learn how to produce and direct advertising agency productions. Prior enrollment in Digital Media 112, 115A, and 140 recommended. CSU

DM 255

Motion Picture Technical Production

Formerly: TELV 255, Motion Picture Technical Production

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This course provides hands-on, practical experience in technical production, culminating in a fully produced film screened to the public. The final movie presentation becomes the basis for creating a production reel. CSU/UC

DM 256

Intermediate Motion Picture Technical Production

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: DM 255 with a minimum grade of C.

This course provides hands-on practical experience in intermediate technical production, culminating in a fully produced film screened to the public. The final movie presentation becomes the basis for creating a production reel. Prior enrollment in DM 255 is recommended. CSU

DM 257

Advanced Motion Picture Technical Production

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: DM 256 with a minimum grade of C.

This course provides hands-on on practical experience in advanced technical production, culminating in a fully produced film, screened to the public. The final movie presentation becomes the basis for creating a production reel. CSU

DM 260

Lighting Fundamentals

Formerly: TELV 260, Lighting Fundamentals

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Theory and practices of lighting including control systems and instruments as well as the techniques for proper installation, operation, maintenance, and safety. Same as THEA 133. CSU

DM 265

Documentary Film Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: DM 115A; DM 112; DM 140 with a minimum grade of C.

This is a capstone course where students will build upon skills and concepts developed in previous camera, editing, and cinematography courses. Students will learn to produce and direct short-form documentaries. CSU

EARTH SCIENCE (ERTH)

ERTH 110 (C-ID GEOL 120)

Introduction to Earth Science

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101. CSU/UC

ERTH 110H (C-ID GEOL 120)

Honors Introduction to Earth Science

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An intensive study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101. CSU/UC

ERTH 115

Earth Science for Educators

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

The study of the dynamic forces shaping the earth, including its oceans and atmosphere. This class is open to all majors but is oriented towards enhancing the earth science knowledge of future teachers. Also includes an introduction to the solar system. Half-day field trip required. Not open to students who are enrolled or have credit in Earth Science 110, Geology 101, or Geography 101. CSU/UC

ERTH 150

Introduction to Oceanography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory study of the ocean and its topography, sediments, circulation, shoreline processes, biological productivity, and mineral resources (Same as Geology 150). CSU/UC

ERTH 150H

Honors Introduction to Oceanography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Enriched and intensive study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity, and mineral resources. Course is taught in a seminar format to provide optimal active learning and critical thinking (Same as Geology 150H). CSU/UC

ECONOMICS (ECON)

ECON 120 (C-ID ECON 202)

Principles/Macro

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MATH 060 or MATH 083 or MATH 084 with a minimum grade of C.

Introduction to macroeconomics, including basic economic concepts, analysis of markets, national income accounting, employment, short run business cycle fluctuations, long run growth trends, monetary and fiscal policies, and international economic issues. Intended for economics, business, and certain engineering/ computer science majors. CSU/UC

ECON 121 (C-ID ECON 201)

Principles/Micro

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MATH 060 or MATH 083 or MATH 084 with a minimum grade of C.

Introduction to microeconomics, including basic economic concepts, analysis of markets, efficiency, consumer and firm behavior, industry structures, market failure, and resource markets. For economics, business, and certain engineering and computer science majors. CSU/UC

EDUCATION (EDUC)

EDUC 105

Exploration in the Field of Education

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Before observation begins, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.

An exploration in the field of education from early childhood through high school. This course requires 20 hours of structured observation in the following traditional and non-traditional settings: early childhood, elementary school, middle school, high school, special education, and English Language Development (ELD). Topics will include: a) roles and responsibilities of the teacher, b) teaching and learning of diverse student populations across different education spans, and c) careers in education beyond the classroom teacher. CSU

EDUC 113

Tutoring Reading in Elementary Schools

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

An examination of effective tutoring strategies, focusing on the support for reading skills of elementary age children. Students are placed in local K-8 classrooms to gain experience with school-age children. Twenty+ service learning hours required in addition to lecture hours. Student must provide proof of negative TB screening. CSU

EDUC 120A

Development of the School-Age Child

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the physical, cognitive, personality, and social development of children between the ages of five and twelve years.

Attention will be paid to the scientific study of middle childhood, developmental trends, and issues of diversity. Not offered every semester. (Same as CDEV 120A) CSU/UC

EDUC 120B

School-Age Child Care and Recreation Activities

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on school age creative activities, including planning and implementing an appropriate before/after school curriculum. Attention will be paid to integrating academics, recreation, and creative activities suitable for school-age child care programs. (Same as CDEV 120B) CSU

EDUC 201 (C-ID EDUC 200)

Introduction to Education

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: EDUC 105 with a minimum grade of C.

Introduction to the field of education including historical and philosophical perspectives; school governance and funding; societal influences and student diversity; school curriculum standards; professional standards and teaching performance expectations. Students will independently complete a minimum of 45 hours of Service Learning (structured observation and internship/ fieldwork) in local public elementary school classrooms during the semester. CSU/UC

EDUC 203

Introduction to Children with Special Needs

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduces the variations in development of children and adolescence with special needs, and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to individuals with special needs, and the identification and referral process. (same as CDEV 205) CSU

EDUC 204

Personal Proficiency in Educational Technologies for Secondary Teachers

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will develop personal proficiency in educational technologies to facilitate the teaching process in a secondary classroom setting. Students will also apply digital literacy skills through the use of presentation, spreadsheet, word processing and publication software, interactive online tools, internet search and retrieval, information literacy, electronic communication and collaboration, and awareness of legal and ethical issues in the digital world. CSU

EDUC 205

Personal Proficiency in Educational Technologies for Elementary Teachers

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will develop personal proficiency in educational technologies to facilitate the teaching process in an elementary classroom setting. Students will also apply digital literacy skills through the use of presentation, spreadsheet, word processing and publication software, interactive online tools, internet search and retrieval, information literacy, electronic communication and collaboration, and awareness of legal and ethical issues in the digital world. CSU

EDUC 210

The Teaching Experience: Secondary Education

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the history, philosophy, and sociology of secondary education. This course will cover the California Teaching Performance Expectation and Assessment, needs of special populations, English learners, struggling readers, content standards, and major curriculum reform documents. Students participate in 45 hours of structured observation in a local secondary classroom. CSU/UC

EMERGENCY MEDICAL TECHNICIAN (EMT)

EMT 104

Emergency Medical Technician

Unit(s): 10.0 Class Hours: 162.0 Lecture, 54.0 Lab total.

Corequisite: American Heart Association Basic Life Support (BLS) Healthcare Provider Card and concurrent enrollment in EMT 105. Basic course for the Emergency Medical Technician (EMT). Satisfies requirements for County/State Emergency Medical Services (EMS) Authority. Prepares students to take the Orange County Emergency Medical Services (OCEMS)/National Registry certifying exam for state certification. This course provides depth and breadth of foundational knowledge of the National EMS Education Standards derived from the National Scope of Practice Model for entry-level EMTs. A combination of may be taken a maximum of four enrollments. CSU

EMT 105

Clinical EMT Skills Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: American Heart Association Basic Life Support (BLS) Healthcare Provider Card and concurrent enrollment in EMT 104.

Supervised use of skills lab through supplemental learning to assist the student in development of clinical competency and mastery of psychomotor skills as addressed in course EMT 104. Hours verified by instructor. CSU

EMT 111

Recertification for EMT

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: Valid EMT certificate or equivalent within past two years. Valid CPR card: American Heart Association Health Care Provider.

Update emergency medical techniques, equipment, and EMSA policies. Meets state requirements for EMT recertification. CSU

EMT 198-00

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses in a variety of contemporary topics will be offered to meet the interests and needs of students in the Emergency Medical Technician area. Individual descriptions will be provided for each course developed. CSU

ENGINEERING (ENGR)

ENGR 012

Civil/Architectural Blueprint Reading

Formerly: AEC Print Reading

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Reading and interpreting blueprints for civil engineering, architecture, and construction fields. No prior blueprint reading experience is needed. Course provides preparation for more advanced civil and architectural drafting coursework.

ENGR 051

Introduction to Drafting and CAD

Formerly: Basic Technical Drawing

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introductory course on civil, mechanical, and electrical drafting. Topics include: drafting careers, reading and creating basic engineering drawings (modeling, dimensioning, annotations) using industry-standard CAD software (AutoCAD, Solidworks, and more). Course is an appropriate starting course for students with no drafting or CAD experience and are interested in the fields. Course provides direction for continuing drafting coursework.

ENGR 100A (C-ID ENGR 110)

Introduction to Engineering

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The course explores the branches of engineering, the functions of an engineer, and the industries in which engineers work.

Explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including the interface of the engineer with society and engineering ethics. Develops communication skills pertinent to the engineering profession. CSU/UC

ENGR 100B

Introduction to Architecture/Civil Engineering/Construction (AEC)

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to the Architectural, Civil Engineering, Construction (AEC) fields. Includes an overview of academic programs,

career information and preparation requirements, virtual or in person field trips and guest speakers. CSU

ENGR 103

Solidworks Beginning Solid Modeling

Formerly: Beginning Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling using Solidworks, an industry standard engineering design software (CAD).

This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, fillet, chamfer, etc.), including the preparation of individual solid components and basic solid model assemblies (Same as Manufacturing Technology 103). CSU

ENGR 104

Solidworks Intermediate Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGR 103 or MNFG 103 with a minimum grade of C.

Intermediate course for solid modeling using Solidworks, an industry standard engineering design software (CAD). Includes a review of the introductory class and changes to the Solidworks interface. Instruction in the use of intermediate Solidworks part modeling skills such as assembly modeling and sub- assemblies is included (Same as Manufacturing Technology 104). CSU

ENGR 105

Solidworks Advanced Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGR 104 or MNFG 104 with a minimum grade of C.

Advanced course for solid modeling includes a review of the intermediate class and changes to the Solidworks interface. Instruction in the use of Solidworks part modeling, assembly modeling, sub-assemblies, advanced photoworks and advanced animator emphasized (Same as Manufacturing Technology 105). CSU

ENGR 110 (C-ID ENGR 110)

Advanced CAD Applications

Unit(s): 0.5-4.0 Class Hours: 24.0-192.0 Lab total.

Individual skill development for advanced students desiring to learn special applications using college licensed computer drafting and design software. Each 0.5 unit of credit requires 24 laboratory hours. Suggested preparation: Engineering 184. CSU

ENGR 111

Basic Mechanical Blueprint Reading

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Reading and interpreting blueprints for manufacturing technologies (Same as Manufacturing Technology 111.) CSU

ENGR 114

Geometric Dimensioning and Tolerancing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Drawing interpretation utilizing geometric dimensioning and tolerancing per ASME Y14.5M (formerly ANSI Y14.5M) as applied in engineering, manufacturing, and inspection. Suggested preparation: prior course or experience in drafting with conventional dimensioning and tolerancing. (Same as Manufacturing Technology 114) CSU

ENGR 115

Cooperative Work Experience Education- Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

ENGR 118 (C-ID ENGR 180)

Surveying

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: MATH 162 or MATH 170 with a minimum grade of C or transcripted high school trigonometry or pre-calculus .

The course applies theory and principles of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/ boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites, total stations, and GPS. Assists in passing the land surveyor-in-training exam. CSU/UC

ENGR 119

Advanced Plane Surveying

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: ENGR 118 with a minimum grade of C or Instructor may waive if student can show proof of industry experience in surveying equal to or greater than ENGR 118.

The course applies theory and principles of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/ boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites, total stations, and GPS. Assists in passing the land surveyor-in-training exam. CSU/UC

ENGR 122

Engineering Drawing

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

Principles of engineering drawing: projections, views, sections, dimensions, tolerancing, assemblies, manufacturing processes, engineering drafting practices. Utilizing 2D CAD and 3D solid modeling CAD software. Suggested preparation: prior course or experience in drafting and CAD. CSU/UC

ENGR 124

Advanced Mechanical Drafting and Design

Formerly: Advanced Drawing

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

Advanced topics in mechanical drafting and design: working drawings, fasteners, cams, gears, secondary auxiliary views, advanced sectioning, dimensioning, tolerancing, introduction to GD&T, design for manufacturability, and a focus on using 3D solid modeling CAD software. Suggested preparation: prior drafting or CAD course or experience (e.g., Engr 122 or 125). CSU/UC

ENGR 125 (C-ID ENGR 150)

Engineering Graphics

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

Prerequisite: MATH 162 with a minimum grade of C.

This course covers the principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include: the development of visualization skills; orthographic projections; mechanical dimensioning and tolerancing practices; the engineering design process. Assignments develop sketching skills for 2-D and 3-D CAD. The use of CAD software is an integral part of the course. Suggested preparation: prior course or experience with drafting and CAD. CSU/UC

ENGR 130A

CATIA Beginning Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling CAD using CATIA software. Topics include: CAD overview, sketching, basic solid model creation (base features, pads, pockets, grooves, shafts, etc.) sketch constraints, reference elements, hole features, feature editing, assembly and drawing creation (Same as Manufacturing Technology 130A). CSU

ENGR 130B

CATIA Intermediate Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGR 130A or MNFG 130A with a minimum grade of C. Intermediate course in parametric solid modeling CAD using CATIA software. Topics: intermediate/ advanced level sketching & modeling (sweeps, ribs, slots), feature editing & transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. (Same as Manufacturing Technology 130B). CSU

ENGR 131

Introduction to Mechatronics

Formerly: Engineering Mechatronics Technology Survey

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Course provides hands-on exposure to modern techniques in rapid prototyping, including: 3D printing, laser cutting, 3D scanning, and other processes used in mechatronics and engineering. Course provides a good introduction to the Engineering Mechatronics program. CSU

ENGR 132

Introduction to Robotics

Unit(s): 2.5 Class Hours: 36.0 Lecture, 27.0 Lab total.

Introductory course in robotics. Topics include history of robotics, role of robotics in modern engineering, industrial automation, emerging technologies, basic design, sensors, circuitry, actuators, mechanics, programming, and a hands-on robot design and construction project. CSU

ENGR 133

Basic Mechatronics

Formerly: Basic Mechatronics Engineering Technology

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Introductory course in mechatronics (mechanical systems controlled with electronics or computer technology) with an emphasis on hands-on design, fabrication, and testing. Topics include: mechanical design and fabrication (solid-modeling CAD, mechanical elements, rapid prototyping with 3D printing, laser cutting and engraving, and other processes), micro-controllers (Arduino), actuators (servo motors), sensors, and electronics systems (basic circuit analysis, construction, breadboarding, sensors, and more). Some prior experience with Solidworks, Arduino, and basic algebra is suggested but not required. CSU

ENGR 134

Intermediate Mechatronics

Formerly: Intermediate Mechatronics Engineering Technology

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Intermediate course in mechatronics with an emphasis on hands-on design, fabrication, and testing. Topics include: mechanical design and fabrication (solid-modeling CAD, 3D printing, laser cutting, SLA, G-code, CNC engraving, hand tools), micro-controllers (Arduino), actuators (electric motors, pneumatics), sensors, and electronics systems (circuits, soldering, DMM, oscilloscope), and a hands-on design project. Some prior experience or coursework with mechatronics (Engr 133 or similar), Solidworks, Arduino, and basic algebra is suggested. CSU

ENGR 135

Advanced Mechatronics

Formerly: Advanced Mechatronics Engineering Technology

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Advanced course in mechatronics engineering technology with an emphasis on hands-on fabrication and testing. Topics include: design (solid modeling CAD, mechanics considerations, machine elements), mechanical fabrication (3D printing, SLA, laser, G-code, introduction to CNC), electrical systems (circuit construction, circuit elements, op amps, transistors), control systems (micro- controllers, PID control, sensors, actuators/ motor control), lab work, and hands-on projects. Prior experience with mechatronics (Engr 134 or similar), Solidworks, Arduino, and basic algebra is suggested. CSU

ENGR 142

Civil Drafting

Formerly: Architecture/Civil Engineering/ Construction (AEC) Drawing

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Course teaches industry-standard drafting practices in civil engineering, architecture, and construction drawings and the use of industry-standard CAD software (AutoCAD, Civil 3D). Topics include: reading/interpreting blueprints, line types, views, projection, sectional view, annotations and callouts, creation of blueprints for residences, structures, and other civil projects. Prior course or experience with AutoCAD is strongly suggested. CSU

ENGR 154

Revit

Formerly: AEC BIM with Revit

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Course covers Autodesk Revit, a 3D parametric CAD software that is an industry standard for architectural/civil design. Topics include 3D modeling, drawing creation, BIM (building information modeling) concepts, organizing projects, toolbox elements, templates, design, visualization, modeling, and documentation. Prior course or experience with AutoCAD and civil/architectural drafting is strongly suggested CSU

ENGR 158

Basic Machining Concepts and Operations

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Fundamental operations on lathes, milling machines, grinders, and drill presses, including precision measurements and layout. Equips students with skills and theory necessary to enter or upgrade within the machinist trade. (Same as Manufacturing Technology 158). CSU

ENGR 183

AutoCAD I

Formerly: CAD I - Computer Aided Drafting

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

A first course in AutoCAD by Autodesk, an industry standard engineering CAD software, especially in the civil and architectural fields. Topics include display and file management, units, entities, object selection, advanced editing, layers, dimensions, text, and graphic exchange. CSU/UC

ENGR 184

AutoCAD II

Formerly: CAD II - Computer Aided Drafting

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

A second course in Autodesk AutoCAD, an industry standard engineering CAD software, especially in the civil and architectural fields. Topics include: advanced dimensioning, viewports, hatches, blocks, plotting, attributes, inquiry, intermediate apps, working drawings, introduction to 3D CAD. Suggested preparation: prior course or experience with AutoCAD. CSU

ENGR 185

Civil 3D

Formerly: 3D CAD with Civil 3D

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Course teaches Autodesk Civil 3D - an industry standard CAD software for civil engineers. Topics include advanced modeling, model merging, project management, parcels, surveys, surfaces, alignments, profiles, 3D rendering, and presentation. Prior coursework or experience with AutoCAD is strongly suggested. CSU

ENGR 235 (C-ID ENGR 130)

Statics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: PHYS 217; MATH 185 with a minimum grade of C.

A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Utilizes SI metrics. CSU/UC

ENGR 240 (C-ID ENGR 230)

Dynamics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGR 235 with a minimum grade of C.

Fundamentals of kinematics and kinetics of particles and rigid bodies. Topics include kinematics of particle motion; Newton's second law, work-energy and momentum methods; kinematics of planar motions of rigid bodies; work-energy and momentum principles for rigid body motion; introduction to mechanical vibrations. CSU/UC

ENGR 250

Electric Circuits

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Corequisite: Concurrent enrollment in MATH 280 and PHYS 227.

An introduction to the analysis of electrical circuits. Use of analytical techniques based on the application of circuit laws and network theorems. Analysis of DC and AC circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers, and/or switches. Natural and forced responses of first and second order RLC circuits; the use of phasors; AC power calculations; power transfer; and energy concepts. CSU/UC

ENGR 250L

Electric Circuits Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: Concurrent enrollment in ENGR 250.

An introduction to the construction and measurement of electrical circuits, including resistive, RL, RC, RLC, and operational amplifier circuits. Basic use of electrical test and measurement instruments including multimeters, oscilloscopes, power supplies, and function generators. Interpretation of measured data under DC, transient, and sinusoidal steady-state (AC) conditions. CSU/UC

ENGR 281

Properties of Engineering Materials

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: CHEM 209 and PHYS 217 with a minimum grade of C.

Study of atomic, microscopic, and macroscopic structure of metals; properties' enhancement by alloying and heat treatment; effects of temperature and corrosion on metals; fatigue; and other materials (wood, plastic, and concrete). CSU/UC

ENGLISH (ENGL)

ENGL 061

Introduction to Composition

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ENGL N60 and Reading proficiency as assessed by the Reading assessment process or qualifying profile from English placement process.

Expository paragraph writing emphasizing various methods including argumentation. Practice in refining sentence skills and grammar.

ENGL 061X

Accelerated Introductory Composition Skills

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Recommended Preparation: READ 101X or recommended to be taken concurrently READ 101.

An introductory English course designed to prepare students for English 101, Freshman Composition, emphasizing sentence structure, paragraph writing, essay writing, and argumentation using reading-based modeling.

ENGL 066

Route to Writing Success: Freshman Composition Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: Must be taken concurrently ENGL 101.

Laboratory exercises are designed to explore and understand the reading process, the writing process, grammar and punctuation rules in order to successfully complete English 101. This class must be taken concurrently with an English 101 course.

ENGL 101 (C-ID ENGL 100)

Freshman Composition

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ENGL 061, or EMLS 112, or ENGL 061X with a minimum grade of C, or qualifying profile from English placement process.

Expository and argumentative essays and the research paper. Special interest sections described in schedule of classes. CSU/UC

ENGL 101H (C-ID ENGL 100)

Honors Freshman Composition

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: A college GPA or high school GPA for first-term college students of 3.0 or higher AND EMLS 112, or ENGL 061X, or ENGL 061 with a minimum grade of C, or qualifying profile from English placement process.

An enriched exposure to expository and argumentative essays and the research paper, requiring in-depth analysis of issues and substantive treatment of student-selected topics. CSU/UC

ENGL 102 (C-ID ENGL 105, C-ID ENGL 110, C-ID ENGL 120)

Literature and Composition

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

A second semester course in composition and literature that uses literature to develop critical thinking skills with extensive readings selected from the four major genres. CSU/UC

ENGL 102H (C-ID ENGL 105, C-ID ENGL 110, C-ID ENGL 120)

Honors Literature and Composition

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) and ENGL 101, or ENGL 101H with a minimum grade of C.

An enriched approach designed for honors students. A second semester course in composition and literature that uses literature to develop critical thinking skills with extensive readings selected from the four major genres. CSU/UC

ENGL 103 (C-ID ENGL 105)

Critical Thinking and Writing

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ENGL 101, or ENGL 101H with a minimum grade of C.

This course focuses on developing critical thinking, reading, and writing skills by studying established argumentative methods and models and applying them to contemporary issues. Emphasis will be on logical reasoning and analytical and argumentative skills necessary for critical writing. CSU/UC

ENGL 103H (C-ID ENGL 105)

Honors Critical Thinking and Writing

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: Cumulative GPA of 3.0 or higher in college work (or high school for first-term students) and ENGL 101, or ENGL 101H with a minimum grade of C.

Enriched and intensive exploration of historical and contemporary issues. Application of critical thinking, writing and reading skills to established argumentative methods and models through student-initiated discussion and problem-solving in a seminar setting. CSU/UC

ENGL 104 (C-ID ANTH 130)

Language and Culture

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

General introduction to the processes of human communication emphasizing coextensive aspects of language and culture. Surveys core areas of linguistic anthropology: structural linguistics; biological basis of language; and sociolinguistics. Topics include acquisition of first and second languages, languages in contract, and the effects of both language and culture on inter/intra group communication.

Languages spoken in the local area are used as basis of study. (Same as Anthropology 104.) CSU/UC

ENGL 104H (C-ID ANTH 130)

Honors Language and Culture

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

General introduction to the processes of human communication, emphasizing coextensive aspects of language and culture. Surveys core areas of linguisitic anthropology: structural linguistics, biological basis of language, and sociolinguistics. Topics include acquisition of first and second languages, languages in contact, and the effects of both language and culture on inter/intra group communication.

Languages spoken in the local area are used as basis of study. Requires individual research and oral presentation of readings in a seminar setting (Sane as Anthropology 104H). CSU/UC

ENGL 213 (C-ID ENGL 200)

Creative Writing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Introduction to writing techniques focusing on the four literary genres. Workshop format, emphasis on writing and critiquing. CSU/UC

ENGL 220

Survey of the Bible as Literature

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

A study of the literary history, influence, and craftsmanship of the Bible and an exploration of related stories, poems, plays, essays, and other diverse materials. CSU/UC

ENGL 222

Essential Information for English Major Success

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Recommended Preparation: Have an Electronic Educational Plan (ed plan) for the A. A. degree prepared with or reviewed by an academic counselor.

How to be a better prepared English major: introduces students to SAC's English courses, pathways for law and literature at SAC, the diversity of career options, and transfer academic opportunities. Offers introductions to the literary analytical schools; current technology; the types of writing, research and reading expected of English majors; study techniques and approaches to overcoming barriers to success for English majors. CSU

ENGL 231 (C-ID ENGL 160)

Survey of English Literature I

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Introductory study of representative selections of British literature from the Anglo-Saxon period to the neo-classical period. Emphasis on authors best exemplifying their period, such as Chaucer, Shakespeare, Spenser, Jonson, Milton, Donne, Dryden, Johnson, Behn, Pope and others. CSU/UC

ENGL 232 (C-ID ENGL 165)

Survey of English Literature II

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Introductory study of representative selections from the English Romantic Movement to the present. Emphasis on those authors best exemplifying their period, such as Austen, Wordsworth, Coleridge, Byron, the Shelleys, Keats, Tennyson, Newman, Carlyle, the Brownings, Dickens, the war poets, Houseman, Yeats, Wilde and Woolf. CSU/UC

ENGL 233A

Shakespeare's Comedies and Romances

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Study of selected Shakespearean comedies and romances. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABC. CSU/UC

ENGL 233B

Shakespeare's Tragedies and History Plays

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Study of selected Shakespearean history plays and tragedies. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABC. CSU/UC

ENGL 233C

Shakespeare's Theatre

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Study of selected Shakespearean plays. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABC. CSU/UC

ENGL 241 (C-ID ENGL 130)

Survey of American Literature 1600-1865

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Survey of America's greatest works of literature from 1600-1865. Emphasizes the relationship between various works and general movements in American culture and literary history. CSU/UC

ENGL 242 (C-ID ENGL 135)

Survey of American Literature, 1865-Present

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Survey of America's greatest works of literature and their contributions to the American culture from 1865 to present. Emphasizes the relationship between literary and intellectual history. CSU/UC

ENGL 243

The Modern American Novel

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Study of significant American novels written since 1900. May include, but not limited to works by Fitzgerald, Hemingway, Faulkner, Hurston, Heller, Kerouac, Nabokov, Erdrich, Cisneros, and Morrison. CSU/UC

ENGL 245

The Image of African Americans in Literature and Films

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Examines literature and films by and about African-Americans in relationship to historical periods. Explores cultural, ethnic, and social environments for their impact on development of African-American images. CSU/UC

ENGL 246

Survey of Chicano Literature

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Examines American literature by and about Chicanos. Emphasizes the relationships between various works and the Chicanos' place in American society/culture. CSU/UC

ENGL 270 (C-ID ENGL 180)

Children's Literature

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

A study of literature for children emphasizing the history, trends, issues, and evaluation of all major genres: picture books, poetry, drama, traditional literature, non-fiction, and fiction, including full-length works. CSU/UC

ENGL 271 (C-ID ENGL 140)

Survey of World Literature I

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Survey of selections from world masterpieces from the beginnings of writing through the 1600's. Literary works studied in historical context for artistic form, their influence on their culture and others, and general contribution to understanding human experience. CSU/UC

ENGL 272 (C-ID ENGL 145)

Survey of World Literature II

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

Survey of world literary masterworks since the Renaissance studied for artistic form, cultural influence, and contributions to modern and contemporary thought. CSU/UC

ENGL 278

Survey of Literature by Women

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

An historical survey of literature by women. Will include short stories, novels, plays, poetry, and non-fiction. CSU/UC

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL N88

Verb Tenses

Unit(s): 1.5 Class Hours: 24.0 Lecture, 6.0 Lab total.

Prerequisite: Eligible for EMLS 107 or higher.

Intensive oral and written practice with verb forms and tenses in a variety of contexts. Laboratory is required. May be taken after ESL N89.

ENGLISH FOR MULTILINGUAL STUDENTS (EMLS)

EMLS N49

Introduction to Academic Speaking Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Beginning course for non-native students with previous instruction in basic English as a second language. Includes listening discrimination, pronunciation, speaking and listening skill building. Skills are intensively practiced and reviewed. Not applicable to associate degree. (Same as CMST N49).

EMLS N52A

Beginning American English Pronunciation Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Instruction in pronunciation of American English sounds, identifying commonly mispronounced sounds, and common sound spelling patterns. Not applicable to associate degree. (Same as CMST N52A.)

EMLS N52B

Intermediate American English Pronunciation Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: EMLS N52A.

More extensive instruction in American English sounds. Emphasis on more difficult sounds, sound blends, word endings, syllable and word stress. Not applicable to associate degree. (Same as CMST N52B.)

EMLS 055

Writing, Grammar and Reading I

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

Prerequisite: Qualifying profile from ESL/EMLS placement process.

Sentence-level and basic paragraph writing for multilingual students who can speak English but often make grammar mistakes when writing. Narrative paragraphs and journal writing. Revision and editing. Basic grammar including verb tenses and modals. Critical reading.

EMLS 103

Grammar for Better Writing I

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Qualifying profile from ESL/EMLS placement process.

Recommended Preparation: Taking EMLS 104 concurrently is recommended.

Sentence refining course for multilingual students who can speak English but often make grammar mistakes when writing. Basic grammar including verb tenses, verbals, modals, nouns, pronouns, compound and complex sentences. Revision and editing. CSU

EMLS 104

College Reading and Writing I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: Qualifying profile from ESL/EMLS placement process.

Recommended Preparation: Taking EMLS 103 concurrently or prior to EMLS 104 is highly recommended.

Reading and paragraph-level writing course for bilingual students who need to develop skills in reading academic material and writing academic paragraphs. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. CSU

EMLS 105

Grammar for Better Writing II

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: EMLS 103 Or qualifying profile from ESL/EMLS placement test EMLS 103.

Recommended Preparation: Taking EMLS 106 concurrently is recommended.

Sentence refining course for bilingual students who can speak English but often make grammar mistakes when writing. Grammar focus is on sentence level accuracy, including transitions, the passive voice and multi-clause sentences. Revision and editing. CSU

EMLS 106

College Reading and Writing II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: Qualifying profile from ESL/EMLS placement process EMLS 104.

Recommended Preparation: Taking EMLS 105 concurrently or prior to EMLS 106 is highly recommended.

Reading and short essay-level writing course for bilingual students who need to improve skills in reading academic material and writing academic essays. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. CSU

EMLS 107

Writing, Grammar and Reading II

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

Prerequisite: EMLS 055 or qualifying profile from ESL/EMLS placement process.

Sentence and paragraph-level writing for multilingual students who can speak English but often make grammar mistakes when writing. Narrative and descriptive paragraphs. Revision and editing. Review of basic grammar. Practice with sentence variety. Critical reading. CSU

EMLS 109

Writing, Grammar and Reading III

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

Prerequisite: EMLS 107 or qualifying profile from ESL/EMLS placement process.

Paragraph-level writing for multilingual students who speak English but often make grammar mistakes when they write. Narrative, descriptive, and expository paragraph practice. Revision and editing. Complex grammar structures. Critical reading. CSU

EMLS 110

Introduction to the Essay

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: EMLS 109 or qualifying profile from ESL/EMLS placement process.

Introductory essay writing course for bilingual students who speak English fluently but make multiple grammar errors when writing. This composition course progresses from paragraph to essay, emphasizing basic expository modes, grammar review, critical reading, and revision and editing techniques. CSU/UC

EMLS 112

Advanced Composition

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: EMLS 110 and Passing Proficiency on the Reading Placement process or qualifying profile from ESL/EMLS placement process.

Advanced-level writing course for bilingual students who are fluent in conversational English but make multiple grammar errors when writing. Emphasis is on complex expository modes, grammatical accuracy in writing, grammar review, research methods, critical reading skills, and revision and editing techniques. CSU/UC

ENTREPRENEURSHIP (ENTR)

ENTR 100

Introduction to Innovation and Entrepreneurship

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Discover how the entrepreneurial mindset teaches life skills that can make you more successful now and at every stage of your life.

Examine how that mindset affects the social, psychological, and physiological impact of those life skills. Learn the basics of how to start a business and learn how to think like an entrepreneur. CSU

ENTR 101

Entrepreneurs and Success

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn the psychology of becoming a successful entrepreneur. Discover how to find flow and stay on course. Learn the habits of highly successful entrepreneurs. Discover how cutting-edge communication, design, and technology are 21st century drivers of success. CSU

ENTR 102

Entrepreneurial Ideas and Creativity

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Discover that business creativity is a process that can be learned. Practice the process of searching for new business ideas using proven methods. Turn your creativity into business ideas. CSU

ENTR 103

Innovations and Opportunities

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how to search for and create a good business opportunity. Learn how to turn business ideas into entrepreneurial opportunities. Explore and map personal specific knowledge to create business innovation. CSU

ENTR 104

Business Models

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn what a business model is and learn if a business model will make money. Discover how to filter business opportunities. Learn how to project whether business opportunities can be scalable, can target identifiable markets, and can achieve profitability. CSU

ENTR 105

Social Media, Bootstrapping, and Market Validation

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn the latest Social Media & Bootstrap Marketing strategies & techniques. Discover how to do more with marketing while spending less. Learn what you need to know about your customer and your market by designing a sound research strategy. Discover how to implement a market validation strategy. CSU

ENTR 106

Building an Entrepreneurial Team

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how to create a network of principals, advisors, collaborators, managers, attorneys, accountants, and employees to build a successful business team. Explore how to organize your company and your business for day-to-day operations. Issues in hiring people and outsourcing. CSU

ENTR 110

Capstone Business Simulations

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Participate in realistic hands-on business simulations. Make complex business decisions and learn the implications of decisions made. Learn real world business principles in an exciting business context. CSU

ENTR 111

Capstone Entrepreneurial Case Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Discuss complex entrepreneurial business cases in a highly interactive environment. Translate complex business cases into critical incidents. Translate critical incidents into simulations. Learn to analyze entrepreneurial problems and solutions. CSU

ENTR 140

Fashion E-Commerce

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to create and manage an E- commerce store. Study of the operations of an established fashion E-Commerce retail

business. Concepts of merchandising include buying, pricing, stock control, credit, credit control, omni-channel strategies, logistics, layout, customer service, marketing, and analytical software. (Same as FDM 140.) CSU

ENVIRONMENTAL STUDIES (ENVR)

ENVR 140 (C-ID GEOL 130)

Environmental Geology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to environmental geology, the interaction between the Earth and mankind. Global study of geologic resources, resource management, geologic hazards, and waste remediation (Same as Geology 140). CSU/UC

ENVR 170

Environmental Challenges of the 21st Century

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Examines the environmental impacts of increased human population on food, water and energy resources. Land use policies and environmental effects of pollution will also be analyzed (Same as Biology 170). CSU

ENVR 200

Environment of Man

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A biological and physical science introduction to environmental problems such as energy, resources, pollution, land use, population and food, including economic and political factors. A natural science elective. (Same as Biology 200) CSU/UC

ENVR 259

Environmental Biology

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Introduction to Environmental Biology. Includes study of ecosystems, population dynamics, classification, diversity of plant and animal species, effects of pollutants at both the cellular and organismal levels, and principles of ecology. (Same as Biology 259.) CSU/UC

ETHNIC STUDIES (ETHN)

ETHN 101 (C-ID SJS 110)

Introduction to Ethnic Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course serves to broaden the ethnic and racial perspective of students interested in American culture and society. It encompasses an historical overview of the social, cultural, political, and economic aspects of four ethnic groups -- Native Americans, African Americans, Chicana/o/@/x/e, and Asian Americans -- in the United States. Emphasis is placed on the historical and contemporary relationships of these groups with each other and the rest of American society. Duplicate credit not granted for ETHN 101H. CSU/UC

ETHN 101H (C-ID SJS 110)

Honors Introduction to Ethnic Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

This course serves to broaden the ethnic and racial perspective of students interested in American culture and society. It encompasses an historical overview of the social, cultural, political, and economic aspects of four ethnic groups -- Native Americans, African Americans, Chicana/o/@/x/e, and Asian Americans -- in the United States. Emphasis is placed on the historical and contemporary relationships of these groups with each other and the rest of American society. CSU/UC

ETHN 102

The Borderlands: Cultural Context and Intercultural Relations

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analysis of the U.S.-Mexico border region: geographic, historic, and artistic significance. Discussions of "borders" in international, regional, community, and personal contexts, as they concern intercultural relations. Attention given to the cultural interactions of African American, Asian American, Chicana/o/@/x/e, Latina/o/@/x/e, and Native American ethnic groups within mainstream U.S. society. Duplicate credit not granted for ETHN 102H. CSU/UC

ETHN 102H

Honors the Borderlands: Cultural Context and Intercultural Relations

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Analysis of the U.S.-Mexico border region: geographic, historic, and artistic significance. Discussions of "borders" in international, regional, community, and personal contexts, as they concern intercultural relations. Attention given to the cultural interactions of African American, Asian American, Chicana/o/@/x/e, Latina/o/@/x/e, and Native American ethnic groups within mainstream U.S. society. CSU/ UC

FASHION DESIGN MERCHANDISING (FDM)

FDM 005

Fashion Laboratory

Unit(s): 0.5-3.0 Class Hours: 27.0-162.0 Lab total.

Supervised use of the fashion laboratory. Lab hours verified by sign-in. Twenty-four hours laboratory per 0.5 units. Not applicable to associate degree.

FDM 005A

Computer Fashion Laboratory

Unit(s): 0.5-1.5 Class Hours: 27.0-81.0 Lab total.

Corequisite: FDM 080, or FDM 081, or FDM 111A, or FDM 111B, or FDM 111C, or FDM 140, or FDM 213, or FDM 215, or FDM 216.

Advanced level of supervised use of the computer fashion laboratory. Lab hours verified by sign-in. Twenty-four hours laboratory per 0.5 units. Not applicable to associate degree.

FDM 052

Knit and Swim Suit Sewing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Construction techniques to sew lingerie, bathing suits, athletic attire, and knit t-shirts. Emphasis is placed on serger and cover-stitch machine operation, fitting issues, and garment specification measurement techniques as related to knit garments for domestic and offshore production.

FDM 053

Introduction to Sewing

Unit(s): 2.5 Class Hours: 36.0 Lecture, 27.0 Lab total.

Basics in sewing; how to use the sewing machine, understanding pattern terms and tools and constructing basic samples, skirts, and shirts.

FDM 055

Children's Clothing

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Quick basic sewing techniques. Emphasis on individualizing designs to create a variety of functional, durable children's garments.

FDM 056

Basic Sewing and Alternations

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Basic sewing techniques used in the restyling and alteration of ready-made garments. Evaluation of fit and determination of appropriate styling changes emphasized.

FDM 057

Patterns for Dressmakers

Unit(s): 3.5 Class Hours: 54.0 Lecture, 36.0 Lab total.

Recommended Preparation: FDM 105A, and FDM 105B.

Basic flat pattern methods for designing original patterns and altering designs of commercial patterns for dressmakers. Students will construct their designed garments.

FDM 058

Decorative Apparel

Unit(s): 0.5 Class Hours: 9.0 Lecture, 9.0 Lab total.

Application techniques of sewing embellishments on surface textures and patterns in creating ethnic inspired apparel designs.

FDM 059

Fashion Modeling

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Modeling techniques of the formal fashion runway and informal showings, stressing preparation of the professional model.

FDM 080

Embroidery

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Applied techniques of embroidered decorative embellishments of surface textures and patterns in creating apparel designs. Incorporation of embroidery software and machinery.

FDM 081

Fabric Printing

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Application techniques of surface textures and patterns using screen printing techniques. Course includes digital application of artwork and preparation for printing.

FDM 100

Introduction to the Fashion Industry

Formerly: Introduction to Fashion

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the development, structure, and interrelationship of the global fashion industry, including: Consumer characteristics, product design, textile and apparel production, retail merchandising, brand marketing, distribution, and promotion. An introduction to apparel business organizations, their commercial processes and career opportunities. Oral, written, and multimedia reports on current topics relevant to the fashion industry. CSU

FDM 101

Buying and Merchandising

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Planning, purchasing, buying, and merchandising techniques of the apparel industry's wholesale to retail markets. Course covers ecommerce and brick and mortar stores. Includes research methods to create buying plans to satisfy consumer demands while aligning revenue and inventory requirements. Develop assortment planning, inventory management, and excel template creation. Identify SKU level demand analysis, inventory level evaluations, open to buy monitoring, and sales forecasting processes. CSU

FDM 102

Promotion and Coordination

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the directing and coordination of event promotions. Emphasis on promotion planning and presentation, salesmanship, and event production. CSU

FDM 103

Fashion Selection

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Apparel selection based on historical perspective, culture, and fashion trends. This course will examine the interrelatedness of socio-psychological, economic and political/ religious influences on dress. Included is the analysis of color, line, and design as they relate to garment selection and wardrobe planning. Cross-cultural analysis and interpretation of Western and non-Western clothing behavior through written analysis papers. The fashion professional uses this information to better design, produce, and select products to meet the needs of a culturally diverse consuming population. CSU

FDM 104

Textile Fibers and Fabrics

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

This course is a study of textile fibers and fabrics, their production/ development, environmental impact, selection, use and care of wearing apparel and home furnishings. The course also covers current and future textile production and how appropriate performance characteristics are incorporated into materials and products. CSU/UC

FDM 105A

Beginning Sewing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Apparel garment construction techniques including seam finishes, edge finishes, manipulating garment fullness, and applying closures. Students will construct three full sized garments and a compilation of construction techniques. Students will conduct and document garment fittings, alter patterns, and apply fitting alterations to the sewn projects. CSU

FDM 105B

Intermediate Sewing

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Follow-up of Fashion Design Merchandising 053 and 105A, Beginning Sewing. Coordination of woven fabrics and pattern fitting in construction of class projects such as pants, dress shirts, and unlined jackets. CSU

FDM 106

Advanced Sewing

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: FDM 105A.

Advanced clothing construction techniques appropriate for creating custom garments. Emphasis is placed on working with designer patterns, complex contemporary fabrics, couture sewing techniques, and embellishment techniques. Embellishment techniques include tambour beading, sequins, and heirloom techniques. Projects include a custom formal occasion garment, an heirloom embellishment, and a collection of hand sewn samples. CSU

FDM 107

Custom Tailoring

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Advanced sewing students will apply traditional tailoring techniques in completing a lined suit or coat, including hand pad stitching and edge taping. CSU

FDM 108

RTW Apparel Quality and Construction Analysis

Formerly: RTW Quality Analysis

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An analysis of ready-to-wear apparel for quality evaluation of materials, construction, design, fit, care, and pricing related to consumer buying expectations. Introduction and application of garment industry manufacturing processes using production equipment to mass produce consumer products. Includes Enterprise Resource Planning (ERP), retail math, and Product Data Management (PDM) training. Students will learn how to take design concepts through the sourcing, costing, and production process to create a specifications/technical package. Includes concepts of sizing and principles of fit. CSU

FDM 109

Flat Pattern Techniques

Unit(s): 3.5 Class Hours: 54.0 Lecture, 27.0 Lab total.

Recommended Preparation: FDM 105A.

Students will learn to use flat pattern basic block for pivoting and spreading methods to transfer trade sketches into first pattern outfits and dresses. Students will be required to sew their sample garments. CSU

FDM 111A

Fashion Illustration Techniques

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Application of the basic techniques of drawing fashion and garment trade sketches. Students will use current fashion industry design software along with pencils and markers. CSU

FDM 111B

Fashion Illustration

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: FDM 111A with a minimum grade of C.

Further fashion illustration techniques including color media, camera ready skills, and design of layouts. Focus on Croquis Development and alternative customers including children, maternity, men, and plus size. CSU

FDM 111C

Fashion Portfolio Development

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: FDM 111A with a minimum grade of C.

Advanced sketching course to create a cohesive fashion design or merchandising portfolio for job interview presentation. Focus on appropriate formats, design concepts, fabric rendering techniques, fashion figure proportions, flat technical drawings, and scholarship entries. CSU

FDM 112

Advanced Flat Pattern Making

Unit(s): 3.0 Class Hours: 45.0 Lecture, 45.0 Lab total.

Flat pattern drafting techniques applied to completing basic blocks and first patterns for pants and lined blazers/coats. Students are required to sew their sample garments. CSU

FDM 113

Fashion Draping

Unit(s): 3.5 Class Hours: 54.0 Lecture, 36.0 Lab total.

Recommended Preparation: FDM 105A.

Basic techniques of draping flat fabric into three dimensional garment styles on the dress form to create first patterns. Students are required to sew their sample garments. CSU

FDM 125

Display Merchandising

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Visual merchandise techniques and material in relation to the elements and principles of design and how it relates to the retail environment. CSU

FDM 136 (C-ID THTR 174)

Fundamentals of Costume Design

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

The study of costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. (Same as THEA 136). CSU/UC

FDM 140

Fashion E-Commerce

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to create and manage an E- commerce store. Study of the operations of an established fashion E-Commerce retail business. Concepts of merchandising include buying, pricing, stock control, credit, credit control, omni-channel strategies, logistics, layout, customer service, marketing, and analytical software. (Same as Entrepreneurship 140 Fashion E-Commerce.) CSU

FDM 212

Advanced Draping

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: FDM 113 with a minimum grade of C.

Fashion design draping techniques further practiced in woven, knits, and motif fabrics in designing a line grouping. CSU

FDM 213

Apparel Line Production

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: FDM 100 or FDM 108 and FDM 109 and FDM 111A with a minimum grade of C.

Instruction on designing a fashion line using industry production techniques and equipment. Techniques include computer sketching, computer pattern drafting, and garment construction. CSU

FDM 214

Tech-Packs for Manufactured Apparel

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: FDM 111A.

Introduction and application of garment industry manufacturing processes using production equipment to mass produce consumer products. Includes Enterprise Resource Planning (ERP), retail math, and Product Data Management (PDM) training. Students will learn how to take design concepts through the sourcing, costing, and production process. CSU

FDM 215

Computer Fashion Illustration

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: FDM 111A.

Computerized fashion illustration is taught using computer software. Software programs include Adobe Illustrator, Photoshop, InDesign, and embroidery software. Student needs to know how to manually draw trade flats and posed figures prior to enrolling. CSU

FDM 216

Computerized Garment Pattern Drafting

Formerly: Computer Flat Pattern Design, Grading, and Marking

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: FDM 109.

Computerized apparel pattern drafting is taught using Tuka Tech 2D and 3D design software as tools. Students will create original garment designs, draft the patterns on the computer, and virtually sew them up on the 3D software using an avatar fit model to create a sample line video. Instruction also includes pattern size grading, and marking. Prior to enrollment, students must be able to manually draft patterns, grade patterns, and sew. CSU

FDM 299

Cooperative Work Experience Education

Unit(s): 1.0-6.0 Class Hours: 60.0-450.0 Lab total.

Recommended Preparation: 12 units of Fashion Design Merchandising courses completed with C or better.

This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. Credit may be accrued at the rate of one to six units per semester. One unit of course credit equals 75 hours of paid work or 60 hours of un-paid work. Student repetition up to 16 units is permissible per Title 5, Section 55253. CSU

FIRE ACADEMY (FAC)

FAC 007

Strength and Conditioning for the Fire Service

Unit(s): 2.5 Class Hours: 8.0 Lecture, 96.0 Lab total.

Corequisite: Concurrent enrollment in FAC 050 or FAC 060.

Strength and conditioning course for students preparing for a career in the Fire Service. Emphasis will be placed on metabolic conditioning and strength development to meet the demand of fireground activities, attaining fireground movement competency and to obtain a passing score on the Physical Ability Test (PAT).

FAC 008

Biddle Physical Ability Test (PAT)

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

The Los Angeles County and Orange County Fire Chief's Physical Ability Test is designed to examine the physical ability of the individual when it comes to performing the functions or tasks of a Firefighter.

FAC 017

Physical Ability Instructor

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Designed to train instructors to administer the Biddle Physical Ability Test and to evaluate instructors' ability to administer the physical ability test.

FAC 018A

Firefighter I Physical Ability Practice (Exam)

Unit(s): 0.1-0.3 Class Hours: 5.0-16.0 Lab total.

Training designed specifically for the fire service and those interested in entering the fire service. May not be used to obtain eligibility for the basic fire academy.

FAC 018B

Beginning Fire Physical Ability Training

Unit(s): 0.1-0.5 Class Hours: 5.0-32.0 Lab total.

Students will be introduced to the events of the "Biddle" Fire Fighter Physical Ability Test (Fire Academy 008). This is a supplemental learning assistance course designed to prepare the student for participation and successful completion of FAC 008. Students will perform physical exercise using fire hose, ladders, stairs, TRX, kettlebells and other equipment.

Students will learn proper body mechanics; correct lifting techniques and appropriate physical conditioning principles.

FAC 018C

Intermediate Fire Physical Ability Training

Unit(s): 0.1-0.5 Class Hours: 5.0-32.0 Lab total.

Students will practice the individual events of the "Biddle" Fire Fighter Physical Ability Test (Fire Academy 008). This is a supplemental learning assistance course designed to prepare the student for participation and successful completion of FAC 008.Students will perform physical exercise using fire hose, ladders, stairs, TRX, kettlebells and other equipment.

Students will learn proper body mechanics; correct lifting techniques and appropriate physical conditioning principles.

FAC 018D

Advanced Fire Physical Ability Training

Unit(s): 0.1-0.5 Class Hours: 5.0-32.0 Lab total.

Students will practice and condition for successful completion of the "Biddle" Fire Fighter Physical Ability Test (Fire Academy 008). This is a supplemental learning assistance course designed to prepare the student for participation and successful completion of FAC 008. Students will perform physical exercise using fire hose, ladders, stairs, TRX, kettlebells and other equipment. Students will learn proper body mechanics; correct lifting techniques and appropriate physical conditioning principles.

FAC 028

Physical Training for Fireground Operations

Unit(s): 1.0-2.5 Class Hours: 8.0 Lecture, 24.0-96.0 Lab total.

Prerequisite: Students must provide their own personal protective equipment and tools that meet current NFPA requirements and completion of an approved Fire Academy or signed statement by the agency's Fire Chief or designee stating the sponsored student is eligible to complete the training requirements for FFI.

Physical training course will provide an intense hands-on approach to fireground movement and energy system specificity. Focus will be on skill competency, an understanding of performance enhancement and injury prevention practices. Students will gain knowledge of proper training practices through lecture and participation in physical training designed to overload, progress, and decrease reversibility in an effective and safe manner.

FAC 029

Public Safety Wellness and Fitness- Operation and Safety Training

Unit(s): 2.0 Class Hours: 8.0 Lecture, 95.0 Lab total.

Occupation specific wellness and fitness principles to prepare those who respond to emergencies, accidents, local and national disasters and terrorist attacks. Physical fitness concepts and activities prepare the student for any threat whether physical, environmental or psychological. Individualized fitness assessment, fitness profile and exercise prescription provided.

FAC 031

Fire Specialist Academy, Vehicle Rescue and Extrication

Unit(s): 0.5 Class Hours: 8.0 Lecture, 8.0 Lab total.

A course in rescue incident management and includes police coordination/cooperation, assessment, triage, extrication, field equipment, and stabilization. Not offered every semester.

FAC 035

Confined Space Rescue Technician

Unit(s): 1.0 Class Hours: 10.0 Lecture, 30.0 Lab total.

Prerequisite: Confined Space Awareness. Student must bring Confined Space Awareness certificate of completion to first class meeting or they be dropped from the class.

This course is designed for all emergency personnel with confined spaces within their jurisdiction. This course is an intensive hands- on training program that will prepare the student to respond to confined space emergencies. This course of instruction prepares the student in identifying confined spaces and permit-required confined spaces, the hazards associated with permit required confined spaces, target industries and hazards, state and federal regulations, components of a rescue operation, and the roles and responsibilities of the rescue team. Meets CFSTES requirements for professional certification. Additional materials fee may be required for state course completion certificate. This course is limited to 36 students. Not offered every semester.

FAC 041A

Reserve Firefighter Academy

Unit(s): 9.0 Class Hours: 144.0 Lecture, 22.0 Lab total.

Basic and predictable level of knowledge, skills, and ability among those individuals destined for assignment to a wildland fire crew. Includes EMS and Hazmat First Responder. Meets minimum departmental requirements for safety. Additional materials fees may apply. Not offered every semester.

FAC 050

Fire Suppression Training Academy

Unit(s): 22.5 Class Hours: 266.0 Lecture, 294.0 Lab total.

Corequisite: Concurrent enrollment in FAC 007. Medical exam in accordance with NFPA 1582 and FAC 008.

Basic and predictable level of knowledge, skills, and ability among those individuals destined for assignment to a wildland fire crew. Includes EMS and Hazmat First Responder. Meets minimum departmental requirements for safety. Does not meet requirements of OCFCA or California State Firefighter I criteria. Additional materials fees may apply. Not offered every semester.

FAC 060A

Basic Fire Academy- Fire Fighter 1A Structure

Formerly: 060 Basic Fire Academy

Unit(s): 10.0 Class Hours: 84.0 Lecture, 288.0 Lab total.

Prerequisite: FTC 101 and FTC and 102 and FTC 103 and FTC 104 and FTC 105 and FTC 106 and FTC 121 and FTC 121L and FAC 008 with a minimum grade of C.

Corequisite: FAC 007

Other: Current CPR Healthcare Provider certification or equivalent; Possession of current NREMT (National Registry Emergency Medical Technician) Certification; NFPA 1582 Medical Clearance dated within two years of the course start date; Fire Technology Department approval.

This course provides the first level of professional training needed to obtain California Fire Fighter 1 (2019) certification. Students will learn the skills and knowledge needed for the entry-level fire fighter to perform structural suppression activities. Key learning concepts include: firefighter safety; communications; cleaning, maintaining, and utilizing equipment and tools; building construction and fire behavior; water supply; ladder operations; forcing entry into a structure; conducting search and rescue operations; attacking an interior structure fire; horizontal and vertical ventilation; property conservation; fire scene overhaul; fire fighter survival; and fire suppression with Class A materials, vehicles, and ground cover. Students are required to complete all applicable certification exams. All Fire Fighter 1 (2019) cognitive exam modules will be delivered through the State Fire Training User Portal. State Fire Training will issue IFSAC and Pro Board accredited certifications to all eligible applicants for California Fire Fighter 1 (2019) certification. Material fees required. Students must rent approved turn-outs and other personal protective equipment from designated vendor. Departmental approval required for enrollment.

FAC 060B

Firefighter 1B - Hazardous Materials / WMD

Unit(s): 1.0 Class Hours: 18.0, 8.0 Lab total.

This course provides the awareness skills and knowledge needed for the entry-level firefighter to recognize and identify hazardous materials and weapons of mass destruction (WMD), isolate hazards and deny entry, and initiate required notification. At the operations level, this course provides the skills and knowledge needed to identify incident scope; select, use, and inspect PPE; perform emergency decontamination; perform assigned tasks at a hazardous materials/ WMD incident including product control techniques; and evaluate and report incident progress (2019). A California Firefighter 1 certification contains three levels of Professional Qualifications set by the National Fire Protection Association (NFPA). FF 1B includes the second level of professional qualifications: NFPA 1072: Hazardous Material Awareness and Operations. Material fees required.

FAC 060C

Firefighter 1C - Wildland Firefighter 1

Unit(s): 2.0 Class Hours: 30.0, 34.0 Lab total.

Corequisite: FAC 060A

This course provides the skills and knowledge needed for the entry-level firefighter to recognize hazards and unsafe situations; don, doff, and maintain wild and personal protective equipment; deploy a fire shelter; maintain suppression hand tools and equipment; assemble and prepare for response; construct and secure a fire line; reduce the threat of fire exposure to improved properties; and mop up and patrol a fire area when working with wild land fires. Firefighter 1C, Wildland Course Plan (2016) A California Firefighter 1 certification contains three levels of Professional Qualifications set by the National Fire Protection Association (NFPA). FF1C includes the third level of professional qualifications: NFPA 1051: Wildland Firefighter 1. Material fees required. Students must rent approved turn-outs and other personal protective equipment from designated vendor. Departmental approval required for enrollment.

FAC 062

Basic Incident Command Systems

Unit(s): 0.3 Class Hours: 16.0 Lab total.

Basic principles of command, knowledge, and skills common to all positions in the Incident Command System.

FAC 062A

Strike Team Leader Orientation (ICS)

Unit(s): 0.5 Class Hours: 8.0 Lecture total.

State Office of Emergency Service procedures for fire departments assigned to OES when

responding to a mutual aid incident.

FAC 063

Rescue Systems 1: Basic Rescue Skills

Unit(s): 0.5 Class Hours: 40.0 Lab total.

Prerequisite: FAC 060 Basic Fire Academy or equivalent training as determined by the Dean of Instruction of the Fire Academy. Student must provide proof of training at the first class meeting or be dropped from the course.

Recommended Preparation: Completion of Low Angle Rope Rescue: Operational.

Designed for all emergency response personnel. Key topics include: Team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. Additional materials fees may be required. Not offered every semester.

FAC 070

Firefighter I Certification Refresher

Unit(s): 1.0 Class Hours: 4.0 Lecture, 48.0 Lab total.

Prerequisite: Completion of a Firefighter I academy and applying for certification testing or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 or documentation of approval from the California State Fire Training for a certification retest.

Prepares students to meet the State Fire Training (SFT) requirements for Firefighter I (FFI) including the capstone knowledge and skills necessary to pass FFI testing. Upon successful completion, students receive a pass letter from SFT and a FFI pass certificate from the college. Additional materials fees required. May not be offered every semester.

FAC 071A

Ventilation Review

Unit(s): 0.5 Class Hours: 8.0 Lecture, 8.0 Lab total.

Theory of positive pressure ventilation and panelized roofs; student will participate in walking, sounding, and cutting panelized roofs.

FAC 072

Emergency Trench Shoring

Unit(s): 0.5 Class Hours: 8.0 Lecture, 8.0 Lab total.

Prerequisite: Completion of an accredited Firefighter I fire academy or equivalent training as determined by the Dean of Instruction for the Fire Academy. Must bring certificate of completion to first class meeting or be dropped from the course and completion of Rescue Systems I course. Students must bring certificate of completion to the first class or be dropped from the course or a letter from the Fire Chief (or designee) stating the sponsored student has successfully completed the equivalent training.

This course provides an update for first responders in emergency trench operations. Includes general safety and OSHA regulations relative to open trenches or excavations in potentially hazardous situations.

FAC 076

Low Angle Rope Rescue Operational

Unit(s): 1.0 Class Hours: 12.0 Lecture, 12.0-20.0 Lab total.

The Low Angle Rope Rescue Operational course is designed to provide training for responders in low angle rope rescue operations. These over-the-side operations may be the result of a vehicle accident, hiking mishap, swift water rescue, or search and rescue function in an urban or remote area. This course will also provide training in a subject element required for the California Urban Search and Rescue (US&R) Basic and Light Operational Level by serving as the prerequisite training for students wishing to continue training in a Rescue Systems 1 course. Additional materials fees may be required for state training course completion certificate. Not offered every semester.

FAC 076A

High Angle Rope Rescue

Unit(s): 1.0 Class Hours: 12.0 Lecture, 12.0 Lab total.

Designed to equip the students with information, techniques, and methods for utilizing rope, webbing, hardware, friction devices, and stretchers in high angle/high rise rope rescue situations. Additional materials fees may be required. Not offered every semester

FAC 079A

S-339 Division/Group Supervisor- ALL RISK

Unit(s): 0.5 Class Hours: 4.0 Lecture, 16.0 Lab total.

Prerequisite: ICS-300, Intermediate I.C.S. Students must bring certificate of completion to first class meeting or be dropped from the course and qualified as a Task Force Leader (TFLD) or Incident Commander Type 3 (ICT3) or Incident Commander Type 4 (ICT4) and in any two Strike Team Leader positions – one must be STCR or STEN. Students must bring evidence to first class meeting or be dropped from the course.

This course prepares students to perform in the role of division/group supervisor during wildland fire operations. It provides instruction in support of the specific tasks of the division/ group supervisor, but will not instruct students in general management/supervision or in the incident command system (ICS), both of which the student should learn through prerequisite work. Topics include division/ group management, organizational interaction, division operations, all-hazard operations, and tactical decision games. There is a final examination in this course. May require additional material fees. Not offered every semester.

FAC 079B

S-330 Task Force-Strike Leader

Unit(s): 0.5 Class Hours: 2.0 Lecture, 22.0 Lab total.

Prerequisite: Qualified as any single resource boss. Must bring evidence to first class session or be dropped from the course and successful completion of the pre-course work and satisfactory completion of pre-selection assessment.

This course is designed to meet the training requirements outlined in the PMS 310-1, Wildland Fire Qualification System Guide and the position task books developed for the positions of task force leader and strike team leader. Most examples and exercises in this course are specific to wildland fire suppression, although some all-hazards exercises are included.

FAC 079D

S-440 Planning Section Chief

Unit(s): 0.5 Class Hours: 4.0 Lecture, 16.0 Lab total

Prerequisite: Students must be qualified as a Situation Unit Leader (SITL). Students must bring evidence to the first class meeting or be dropped from the class. Students must be qualified as a Resources Unit Leader (RESL). Students must bring evidence to the first class meeting or be dropped from the class and successful completion of pre-course work.

Designed to meet a portion of the training needs of the Planning Section Chief Type 2 for wildland fire operations. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Additional fees may be required. Not offered every semester.

FAC 080B

S-190 Introduction to Wildland Fire Behavior

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

This course provides instruction in the primary factors affecting the start and spread of wildfire and recognition of potentially hazardous situations. S-190 is typically taught in conjunction with or prior to Basic Fire Fighter Training, S-130. It is designed to meet the fire behavior training needs of a Fire Fighter Type 2 (FFT2) on an incident as outlined in the PMS 310-1, Wildland Fire Qualification System Guide and the position task book developed for the position.

FAC 080D

S-290 Intermediate Wildland Fire Behavior

Unit(s): 0.5 Class Hours: 32.0 Lab total.

Prerequisite: S-190 Certification. Students are required to bring a copy of their S-190 certificate to the first class session or they will be dropped from the course.

This is a classroom-based skills course designed to prepare the prospective fireline supervisor to undertake safe and effective fire management operations. It is the second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Fire environment differences are discussed.

FAC 083

Hazardous Materials First Responder: Awareness Level

Unit(s): 0.1 Class Hours: 8.0 Lab total.

The purpose of this course is to provide participants who are likely first responders with an improved capability to respond to Haz Mat events in a safe and competent manner, within the typical resource and capability limitations at the "Awareness" Level. Meets the requirements of CFR 29 1910.120 and CCR Title 8, and satisfies the requirements for Fire Inspector I certification through both State Fire Training and the International Code Council.

Additional material fees may be required. Not offered every semester. (Pass/No Pass Only)

FAC 084

Hazardous Materials First Responder Operational Level

Unit(s): 1.0 Class Hours: 18.0 Lecture, 6.0 Lab total.

This class is designed for fire department personnel who may respond to releases or potential releases of hazardous materials as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. Defensive tactics to contain the release from a safe distance, keep it from spreading, and prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8. This course may require additional materials fees for state course completion certificate. This course is limited to 40 students. May not be offered every semester.

FAC 084A

Hazardous Materials First Responder Operational, Decontamination

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

Recommended Preparation: Trained to Hazardous Materials First Responder Operational Level.

This course is designed for hazardous material emergency response personnel. This course will provide the haz mat emergency responder with the processes used in decontamination and methods to limit the spread of hazardous materials contamination in a safe and competent manner. Additional materials fees may be required for state certificate of completion. Not offered every semester.

FIRE OFFICER TRAINING (FOT)

FOT 008A

S-339 Division/Group Supervisor All Risk

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Prerequisite: I-300 Intermediate ICS. Bring course completion certificate to first class session and I-400 Advanced ICS. Students must bring course completion certificate to first class session and satisfactory completion of pre-course work

Recommended Preparation: Qualified as a Task Force Leader (TFLD) or Incident Commander Type 3 (ICT3) or Incident Commander Type 4 (ICT4) and in any two Strike Team Leader positions – one must be STCR or STEN.

This course prepares students to perform in the role of division/group supervisor. It provides instruction in support of the specific tasks of the division/group supervisor, but will not instruct the student in general management/supervision or in the incident command system (ICS), both of which the student should learn through prerequisite work. Topics include division/group management, organizational interaction, division operations, all-hazard operations, and tactical decision games. There is a final examination in this course. Additional materials fee required for State Fire Training Course Completion Certificate.

FOT 008E

S-445 Incident Training Specialist

Unit(s): 0.3 Class Hours: 16.0 Lab total.

Designated to train personnel to perform the duties of a Training Specialist. Duties include coordinating incident training opportunities and activities, ensuring the quality of training assignments, and completing documentation of the incident training. Additional course fees required for State Fire Training Certificate of Completion.

FOT 017

Fire Control 5

Unit(s): 0.5 Class Hours: 15.0 Lecture, 9.0 Lab total.

Designed to familiarize students with the different types of helicopter and aircraft rescues. Personal safety and rescue equipment will be demonstrated. The human factors and stress involved with aircraft rescue will be discussed.

FOT 032

ICS-300 Intermediate ICS

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Recommended Preparation: ICS 200- Students must bring copy of certificate of completion to first class session or they will be dropped from the course

This course provides description and detail of the Incident Command System (ICS) organization and operations in supervisory roles on expanding or Type 3 incidents. Topics include: ICS fundamentals review, incident/ event assessment and agency guidance in establishing incident objectives, Unified Command, incident resource management, planning process, demobilization, transfer of command, and close out. This course is designed For: Type 3 Incident Management Team (IMT) candidates, incident middle management (Unit Leaders, Division/Group Supervisors, and Strike Team Leaders), elected officials, line officers, lead dispatchers, Multi- agency Coordination (MAC) members, director heads (public works director, fire chief, sheriff), emergency managers, and agency representatives.

FOT 033

ICS-400 Incident Command

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Prerequisite: ICS-300, Intermediate ICS with a pass. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course directs the student towards an operational understanding of large single- agency and complex multi-agency/multi- jurisdictional incident responses. Topics include fundamentals review for command and general staff, major and /or complex incident/even management, area command and multi-agency coordination.

FOT 035

Auto Extrication

Unit(s): 0.3-0.5 Class Hours: 16.0-24.0 Lab total.

Provides hands-on experience in the procedures and systems utilized during an automobile extrication. Subjects covered include: auto extrication, types of hand and power tools, removing windows, opening doors, removing roofs, pulling steering wheels, moving foot pedals, raising dashboards, pulling seats, stabilization of vehicles, and simulated rescues of trapped victims.

FOT 044

Fire Investigation 1A: Fire Origin and Cause Determination

Unit(s): 0.5 Class Hours: 40.0 Lab total.

This course provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin. Additional fee required for OSFM Certificate of Completion.

FOT 045

Fire Investigation 1B: Techniques of Fire Investigation

Unit(s): 0.5 Class Hours: 40.0 Lab total.

Prerequisite: Prerequisite OSFM - Investigation 1A with a grade of B or better. Students must bring documentation of prerequisites to first class meeting; failure to comply will result in student being dropped.

This course provides a deeper understanding of fire investigation and builds on Fire Investigation 1A. Topics include the juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives, and fire fatalities.

FOT 050

Community Emergency Response Team

Unit(s): 0.2-0.5 Class Hours: 10.0-30.0 Lab total.

Educating the public to respond to terrorism response issues, theories, and methodologies for disaster mitigation.

FOT 060

Fire Apparatus Driver/Operator 1A: Driver/Operator

Unit(s): 0.5 Class Hours: 40.0 Lab total.

Prerequisite: Hold a valid Class C driver's license. License must be brought to first class session or student will be dropped from the course

This course provides information on fire apparatus preventive maintenance and driving/ operating. Topics include routine tests, inspections, and servicing functions, operate, back, maneuver, and turn a fire apparatus in a variety of conditions; and operate all fixed systems and equipment on a fire apparatus. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/ Operator Professional Qualifications. This course fulfills the requirements for a California Class C Firefighter Endorsement. This course satisfies the partial requirements for State Fire Training Fire Apparatus Driver/Operator - Pumping Apparatus (2015) certification. A materials fee may be required. This course may not be offered every semester.

FOT 061

Fire Apparatus Driver/Operator 1B: Pumping Apparatus Operations

Unit(s): 0.5 Class Hours: 40.0 Lab total.

Prerequisite: Hold a valid Class C Firefighter Endorsed driver's license (minimum). License must be brought to first class session or student shall be dropped from the course and Fire Apparatus Driver/ Operator 1A (2008 or 2015 version). Certificate of completion must be brought to first class session or student shall be dropped from the course and completion of an accredited basic fire academy or equivalent as determined by the Associate Dean of Fire Technology prior to the start of the course. Students seeking to enter this course with equivalent training may be required to demonstrate knowledge of the following topics prior to the start of the course: Describe or explain: Fire hydrant operations; Suitable static water supply sources; Procedures and protocols for connecting to various water sources; Methods to fully open and close the hydrant; Principles of fire streams; flow capabilities of nozzles; Fittings, tools, and appliances; Open, close, and adjust nozzle flow and patterns; Prevent water hammer when shutting down nozzles; Hand lay a supply hose; Connect a supply hose to a hydrant; Make hydrant-to-engine hose connections for forward and reverse lays; Replace coupling gaskets; Mark defective hose NOTE: Approval of equivalent training is not a guarantee that state or licensing agencies will also grant equivalency.

This course provides information on pumping apparatus preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions; producing hand, master, and foam fire streams, relay pump operations; and supplying water to fire sprinkler and standpipe systems. This course is designed for career and volunteer fire service personnel who drive and operate a fire department pumping apparatus. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. This course satisfies partial requirements for OSFM certification for Fire Apparatus Driver/Operator - Pumping Apparatus. Materials fee may be required. Not offered every semester.

FOT 078

S-230 Crew Boss (Single Resource)

Unit(s): 0.5 Class Hours: 26.0 Lab total.

Prerequisite: Satisfactory completion of pre-course work and Qualified as firefighter type 1 (FFT1). Bring evidence of training or certification to first class session and S-290 Wildland Fire Behavior. Bring copy of course completion certificate to class.

Designed for fire service personnel desiring to be qualified as an Engine Boss (ENGB). Training for the single resource boss position from initial dispatch through demobilization to the home unit. Topics include operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post incident responsibilities. Additional materials fee required for CA State Fire Training Certificate of Completion. This course is limited to 30 students.

FOT 078A

S-130 Firefighter Training - Wildland

Unit(s): 0.7 Class Hours: 32.0 Lecture total.

Designed to train firefighters in the basic fire behavior factors that will aid them in safe and effective control of wildland fires.

FOT 078B

S-215L Urban Wildland Interface Firefighting

Unit(s): 0.7 Class Hours: 32.0 Lecture total.

S-215L Urban wildland interface firefighting is a course designed to teach fire crews the principles of backfire/burnout and the necessary firing techniques and related firing devices used to accomplish either of these suppression methods.

FOT 078D

ICS 223-10, Wildland Line EMT

Unit(s): 0.3 Class Hours: 18.0 Lab total.

Prerequisite: Current California State Certification as an EMT or NREMT.

Designed to train firefighters in preserving health and safety of suppression team members during wildland incidents and make available EMT-1 level care in the field.

FOT 079

S-404 Safety Officer

Unit(s): 0.5 Class Hours: 24.0 Lecture total.

Designed to train company/chief officers in the advanced wildland fire safety factors that will aid them in safe and effective control of wildland fires. Not offered every semester.

FOT 079B

S-231 Engine Boss

Unit(s): 0.3 Class Hours: 16.0 Lab total.

Prerequisite: S-230 certification and qualified as a Fire Fighter Type 1 (FFT1) as per OSFM

This is a skill course designed to produce student proficiency in the performance of the duties associated with engine boss, single resource (ENGB). Topics include engine and crew capabilities and limitations, information sources, fire size-up considerations, tactics, and wildland/urban interface.

FOT 079C

S-330 Task Force-Strike Team Leader

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Recommended Preparation: Qualified as any single resource boss.

Designed for fire personnel qualifying within the Incident Command System as a Task Force-Strike Team Leader. Topics include Strike Team orientation, incident responsibilities, and demobilization/release.

FOT 080

Motion Picture / Television Safety Officer

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Course is designed to prepare fire personnel in special effects, film production safety and stunt coordination, line producers, location managers and film commissioners.

FOT 130A

Fire Inspector 1A: Duties and Administration

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

Prerequisite: FTC 104, FTC 105 and FTC 106 with a minimum grade of C, or equivalent as determined by the Dean of academy instruction. To be successful in this course, students should be able to understand and use professional terminology; Identify laws, codes, ordinances, and regulations as they relate to fire prevention; Understand code enforcement as it impacts life and property loss; Define laws, rules, regulations, and codes and identify those relevant to fire prevention; Define the functions of a fire prevention bureau; Describe the history and philosophy of fire prevention; Describe inspection practices and procedure; Understand theoretical concepts of how fire impacts major types of building construction; Describe building construction as it relates to firefighter safety, buildings codes, fire prevention, code inspection, firefighting strategy, and tactics; Differentiate between fire resistance, flame spread, and describe the testing procedures used to establish ratings for each; Classify occupancy designations of the building code; Analyze the hazards associated with the various types of building construction; Identify and describe various types and uses of fire protection system; Explain the benefits of fire protection systems in various types of structures; Describe residential and commercial sprinkler legislation.

This course provides a broad, technical overview of fire prevention codes and ordinances, inspection practices, and key hazards. CSU

FOT 130B

Fire Inspector 1B: Introduction to Fire and Life Safety

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

Prerequisite: FTC 104, FTC 105, and FTC 106 with a minimum grade of C, or equivalent as determined by the Dean of academy instruction. To be successful in this course students must be able to: Describe the basic elements of a public water supply system as it relates to fire protection; Describe the basic elements of a public water supply system including sources, distribution networks, piping and hydrants; Understand theoretical concepts of how fire impacts major types of building construction; Describe building construction as it relates to firefighter safety, buildings codes, fire prevention, code inspection, firefighting strategy, and tactics; Differentiate between fire resistance, flame spread, and describe the testing procedures used to establish ratings for each; Classify occupancy designations of the building code; Describe inspection practices and procedures and Describe the history and philosophy of fire prevention.

Recommended Preparation: FOT 130A with a minimum grade of C.

This course will provide fire prevention professionals with the base level of knowledge necessary to inspect fire protection systems and special hazards. CSU

FOT 130C

Fire Inspector 1C: Field Inspection

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

Prerequisite: FTC 104, FTC 105 and FOT 106 with a minimum grade of C, or equivalent as determined by the Dean of academy instruction. To be successful in this course students must be able to: Identify and describe various types and uses of fire protection systems; Identify the different types and components of sprinkler, standpipe and foam systems; Identify the different types of non-water based fire suppression systems; Explain the basic components of a fire alarm system; Describe the hazards of smoke and list the four factors that can influence smoke movement in a building; Discuss the appropriate application of fire protection systems; Explain the operation and appropriate application for the different types of portable fire protection systems; Understand theoretical concepts of how fire impacts major types of building construction; Describe building construction as it relates to firefighter safety, buildings codes, fire prevention, code inspection, firefighting strategy, and tactics; Identify various classifications of building construction; Identify laws, codes, ordinances, and regulations as they relate to fire prevention; Define laws, rules, regulations, and codes and identify those relevant to fire prevention of the authority having jurisdiction; Understand code enforcement as it impacts life and property loss and Describe inspection practices and procedures

Recommended Preparation: FOT 130B with a minimum grade of C.

This course provides students with a basic knowledge of field inspection roles and responsibilities of a Fire Inspector I including basic plan review, emergency access for an existing system, hazardous materials, and the operational readiness of fixed fire suppression systems, existing fire detection and alarm systems, and portable fire extinguishers. CSU

FOT 130D

Fire Inspector 1D: Field Inspector

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: FTC 104, and FTC 105, and FTC 106 with a minimum grade of C.

Recommended Preparation: FOT 130A with a minimum grade of C.

This course provides students with a basic knowledge of a Fire Inspector's field inspection roles and responsibilities specific to California including tents, canopies, and temporary membrane structures; fireworks and explosives; and wildland urban interface environments. Students receive a Certificate of Completion from the Office of the State Fire Marshal. Not offered every semester. Materials fee required. CSU

FOT 136

Fire Inspector 2A: Fire Prevention Administration

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: FOT 130A, and FOT 130B, and FOT 130C, and FOT 130D with a minimum grade of C.

This course provides students with a basic knowledge of the administrative requirements related to the roles and responsibilities of a Fire Inspector II including processing permit and plan review applications, enforcing permit regulations, investigating complex complaints, recommending modifications to codes and standards, recommending policies and procedures for inspection services, generating written appeals correspondence, initiating legal action, evaluating inspection reports, and proposing technical reference material acquisition. Additional material fee required for Ca State Fire Training certificate of completion. May not be offered every semester. CSU

FOT 137

Fire Inspector 2B: Fire and Life Safety Requirements

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Corequisite: FOT 136

This course provides students with a basic knowledge of fire and life safety requirements related to the roles and responsibilities of a Fire Inspector II including occupancy classification, egress elements, emergency plans and procedures, occupant loads, building construction and fire growth potential. Materials fee required for State Fire Training (CFSTES) Certificate of Completion. Not offered every semester. CSU

FOT 138

Fire Inspector 2C: Inspecting Fire & Life Safety Systems and Equip.

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Corequisite: FOT 136.

This course provides students with a basic knowledge of inspection requirements related to the roles and responsibilities of a Fire Inspector II including inspection of life safety systems and building services equipment, fire protection systems, and emergency access criteria. Materials fees required for State Fire Training (CFSTES) Certificate of Completion. Not offered every semester. CSU

FOT 139

Fire Inspector 2D: Hazardous Materials, Operations, and Processes

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Recommended Preparation: FOT 136 with a minimum grade of C.

This course provides students with a basic knowledge of hazardous materials, operations, and processes related to the roles and responsibilities of a Fire Inspector II including hazardous conditions, flammable and combustible liquids and gases, and hazardous materials. Materials fee required for State Fire Training (CFSTES) Certificate of Completion. Not offered every semester. CSU

FOT 144

Fire Investigation 2A: Criminal and Legal Procedures

Unit(s): 0.5 Class Hours: 40.0 Lab total.

Prerequisite: Fire Investigation 1A, passed with a grade of 80% and Fire Investigation 1B, passed with a grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course provides information on conducting an explosive investigation and a surveillance operation, preparing a search warrant, testifying as an expert witness, assembling a curriculum vitae, and properly documenting a criminally caused fire. In addition, each student will be assigned to an investigative team to conduct an investigation of his/her own criminally caused fire. During this practical exercise, each team will be required to conduct the scene investigation, properly collect and document supportive evidence, prepare their written case report, and present their finding to a district attorney and a judge to review. CSU

FOT 145

Fire Investigation 2B: Field Case Studies

Unit(s): 0.5 Class Hours: 40.0 Lab total.

Prerequisite: Fire Investigation 1-A with a grade of 80% and Fire Investigation 1-B with a grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.

This course provides advanced instruction in fire scene investigation, case preparation, and courtroom presentation. Topics include review of fire scene photography, sketching, evidence collection, interviewing and interrogation, and extensive use of simulations for developing and presenting an arson case. CSU

FOT 150A

Company Officer 2A: Human Resource Management for Company Officers

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

Prerequisite: FAC 060 with a minimum grade of C or equivalent.

This course provides information on the use of human resources to accomplish assignments, evaluate member performance, supervise personnel, and integrate health and safety plans, policies, and procedures into daily activities as well as the emergency scene. Materials fee for State Fire Training Certificate. May not be offered every semester. CSU

FOT 150B

Company Officer 2B: General Administration Functions for Company Officers

Unit(s): 0.5 Class Hours: 8.0 Lecture, 12.0 Lab total.

Prerequisite: Completion of a CA Regionally Accredited Fire Academy or A signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 or equivalent.

This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. Applies to State Fire Marshal Company Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

FOT 150C

Company Officer 2C: Fire Inspections and Investigations

Unit(s): 1.5 Class Hours: 25.0 Lecture, 15.0 Lab total.

Prerequisite: Completion of a CA Regionally Accredited Fire Academy or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter I or equivalent.

This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence. Applies to State Fire Marshal Company Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

FOT 150D

Company Officer 2D: All-Risk Command Operations for Company Officers

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

Prerequisite: Completion of a CSFM (California State Fire Marshal) accredited Fire Academy or Completion of IFSAC (International Fire Service Accreditation Congress) accredited fire academy or completion of a Pro Board Fire Service Professional Qualifications System fire academy or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 and ICS 200 (online certificate).
Recommended Preparation: Hazardous Material Incident Commander (as offered by the California Specialized Training Institute).

This course is designed for aspiring company fire officers. Topics include: Conducting incident size-up, developing and implementing an initial plan of action for emergency incidents, pre-incident planning, and post-incident analysis. Applies to State Fire Marshal Company Officer certification. Materials fee required for State Certificate This class may not be offered every semester. CSU

FOT 150E

Company Officer 2E: Wildland Incident Operations for Company Officers

Unit(s): 1.5 Class Hours: 24.0 Lecture, 16.0 Lab total.

Prerequisite: FOT 150A with a minimum grade of C, and S-290 Intermediate Fire Behavior (classroom delivery only). Students must bring proof of course completion to first class meeting or they will be dropped from the course and completion of a CA Regionally Accredited Fire Academy or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 or equivalent.

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. Applies to State Fire Marshal Company Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

FOT 205

Instructor I: Instructional Methodology

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

Recommended Preparation: Completion of one of the following certificates is recommended: Introduction to the Incident Command System (IS-100.B), FEMA or National Incident Management System (IS-700.A), FEMA.

Students learn to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. Students will also learn to adapt a lesson plan and complete reporting requirements. Designed for: Personnel preparing for a college level fire instructor, Company Officer, or SFT Certified Training Instructor position. Applies to CSFM certification for Instructor I. Additional course material fee is required for CSFM certificate. May not be offered every semester. CSU

FOT 206

Instructor II: Instructional Development

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

Prerequisite: FOT 205 with a minimum grade of C.

This course provides the skills and knowledge needed for the intermediate level professional fire service instructor preparing for Instructor II certification. Participants will learn to develop lesson plans and evaluation instruments, teach and deliver instruction, and evaluate and coach other instructors. Additional materials fees may be required for State Fire Training Certificate. Not offered every semester. CSU

FOT 207

Instructor III: Instructional Program Management

Unit(s): 1.0 Class Hours: 16.0 Lecture, 20.0 Lab total

Prerequisite: FOT 205 and FOT 206 with a minimum grade of C.

This course provides information on planning, developing, and implementing comprehensive programs and curricula. Topics include instructional development, program management, program and instructor evaluation, and test reliability and validity. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. This course is designed for Fire Officers, Staff Officers, and other fire service managers with experience in fire-service training. CSU

FOT 210

Community Risk Educator

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

Prerequisite: Introduction to Incident Command System I-100 (Must bring certificate of completion to first class meeting) and National Incident Management System (NIMS): An Introduction 700 (must bring certificate of completion to first class meeting) and Instructor I: Instructor Methodology OR Training Instructor 1A Cognitive Lesson Delivery (must bring certificate of completion to first class meeting.) and Fire Prevention I: Fire & Safety Inspections Fire & Safety Inspections OR Fire Prevention 1A: Introduction to the California Fire Code Bridge OR Company Officer 2C: Fire Inspections and Investigation (Must bring certificate of completion to first class meeting)OR completion of FTC 104 Fire Prevention Technology with a minimum grade of C.

This course provides the skills and knowledge needed for the Community Risk Educator to perform his/her duties safely, effectively, and competently by coordinating and delivering existing educational programs and information. Enrollment is limited to 30 students. CFSTES Certificate of Completion awarded. This course requires additional materials fees. CSU

FOT 273A

Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers

Unit(s): 1.0 Class Hours: 16.0 Lecture, 10.0 Lab total.

Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or If completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.

This course provides students with a basic knowledge of the human resources requirements related to the roles and responsibilities of a Chief Fire Officer. Topics include developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program. This course is designed for the certified Company Officer advancing to the Chief Fire Officer classification. This course is limited to 25 students. Additional materials fees may apply. Not offered every semester. CSU

FOT 273B

Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers

Unit(s): 0.5 Class Hours: 10.0 Lecture, 8.0 Lab total.

Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or if completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.

This course provides students with a basic knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer including developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding. This class is designed for the certified Company Officer advancing to the Chief Fire Officer classification. May require additional materials fee. Class size is limited to 25. Not offered every semester. CSU

FOT 273C

Chief Fire Officer 3C: General Administration Functions

Unit(s): 1.0 Class Hours: 14.0 Lecture, 10.0 Lab total.

Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or If completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.

This course provides students with a basic knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer including directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the AHJ. Additional materials fees may be required. This course is limited to 25 students. Not offered every semester. CSU

FOT 273D

Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers

Unit(s): 1.0 Class Hours: 16.0 Lecture, 8.0 Lab total.

Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or If completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.

This course provides students with a basic knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer including developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records. This course is designed for the certified Company Officer advancing to the Chief Fire Officer classification. Additional materials fees may be required. This class limited to 25 students. May not be offered every semester. CSU

FOT 274A

Executive Chief Fire Officer 4A: Human Resource Management for Chief Fire Officers

Unit(s): 1.0 Class Hours: 16.0 Lecture, 12.0 Lab total.

Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are recruitment, selection, and placement of human resources; the development of a positive and participative member/management program; the establishment and evaluation of a list of education and in-service training goals; appraisal of a member assistance program; and the evaluation of an incentive program to determine if the desired results are achieved. Applies to State Fire Marshal Executive Chief Fire Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

FOT 274B

Executive Chief Fire Officer 4B: Community & Government Relations

Unit(s): 0.5 Class Hours: 6.0 Lecture, 6.0 Lab total.

Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.
This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is assuming a leadership role in community events. Designed For: Executive Chief Fire Officer Candidate. CSU

FOT 274C

Executive Chief Fire Officer 4C: Administration

Unit(s): 1.0 Class Hours: 16.0 Lecture, 16.0 Lab total.

Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive, long range plan; evaluating and projecting training requirements, facilities, and building needs; completing a written comprehensive risk, hazard, and value analysis; and developing a plan for a capital improvement project or program. Applies to State Fire Marshal Executive Chief Fire Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

FOT 274D

Executive Chief Fire Officer 4D: Emergency Services Delivery

Unit(s): 1.0 Class Hours: 22.0 Lecture, 16.0 Lab total.

Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive disaster plan and a comprehensive plan for the organization to operate at a civil disturbance. Designed For: Executive Chief Fire Officer Candidate. CSU

FOT 274E

Executive Chief Fire Officer 4E: Health and Safety Course Plan

Unit(s): 0.5 Class Hours: 4.0 Lecture, 12.0 Lab total.

Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is maintaining, developing, and providing leadership for a risk management program. Designed For: Executive Chief Fire Officer Candidate. CSU

Fire Public Safety (FSA)

FSA 002

California Ocean Lifeguard-Aquatic Rescue Response Skills

Unit(s): 0.5-9.0 Class Hours: 8.0 Lecture, 16.0-480.0 Lab total.

This course provides ocean lifeguards the occupational education and training needed to maintain adequate levels of knowledge to continue to perform lifesaving tasks. In addition to maintaining the minimum standards necessary for their positions, students are provided drills and formal training needed to ensure high levels of performance. (Pass/No Pass Only)

FSA 005

EMT Recertification

Unit(s): 0.3-1.5 Class Hours: 6.0-24.0 Lecture total.

Prerequisite: Students must be in possession of a current EMT State certification or EMT National Registry certification.

FSA 014

Rescue Operations- Refresher

Unit(s): 0.5-1.0 Class Hours: 12.0 Lecture, 10.0-24.0 Lab total.

Prerequisite: FAC 060 with a minimum grade of C or equivalent.

This course provides a review of the skills and knowledge needed for the professional fire fighter to perform his/her rescue duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications.

FSA 016A

CA Fire Service Administrative Requirements

Unit(s): 0.5-1.0 Class Hours: 8.0-16.0 Lecture total.

Prerequisite: Completion of FAC 060 Basic Fire Academy with a minimum grade of C or equivalent. NOTE: Requisite skills and knowledge learned in a basic fire academy will not be retaught.

This course covers the duties and responsibilities of a Firefighter, departmental communications, ethical principles and prevention of sexual harassment. Content is based on the NFPA 1001 Standard for Fire Fighter Professional Qualifications and the California State requirements for government employees.

FSA 017

Firefighter Refresher- Core Competencies

Unit(s): 0.5-5.0 Class Hours: 8.0 Lecture, 0.0-260.0 Lab total.

Prerequisite: Completion of FAC 060 with a minimum grade of C or equivalent. Approval from Fire Technology Department required. Students must provide their own personal protective equipment and tools which meet current NFPA requirements for maintenance and repair.

Students are provided the opportunity to and reinforce their knowledge, refresh their skills and demonstrate continuing proficiency of their Job Performance Requirements as identified by the Office of the California State Fire Marshal and other certifying agencies. Focus is on mandated continuing education requirements for fire service personnel and the training needs of the jurisdiction. This course is not offered on a semester schedule.

FSA 018

Firefighter Survival

Unit(s): 0.5-1.0 Class Hours: 4.0 Lecture, 12.0-36.0 Lab total.

Prerequisite: Students must provide primary instructor verification of the following prior to participating in any skill or evolution: Access to approved personal protective equipment including demonstration of competency in donning and using the personal protective equipment, and current fit test documentation. Students shall be familiar with all components of their SCBA. Students must show competency in the use of their SCBA prior to participating in any skill or evolution.

This course provides students with a greater understanding of the need for situational awareness, fire fighter survival skills, and the technical survival skills to help firefighters avoid committing fatal errors on the fireground.

FSA 027

Wildland Fire Safety Training Refresher

Unit(s): 0.2-1.0 Class Hours: 4.0-16.0 Lecture, 1.0-10.0 Lab total.

This course focuses on operations and decision-making issues related to fireline and all-hazard incident safety. Topics include entrapment avoidance, current issues, other hazard and safety issues, and fire shelter in order to prepare firefighters for the upcoming fire season.

FIRE TECHNOLOGY (FTC)

FTC 101 (C-ID FIRE 100 X)

Fire Protection Organization

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. CSU

FTC 102 (C-ID FIRE 140 X)

Fire Behavior and Combustion

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. CSU

FTC 103 (C-ID FIRE 150 X)

Principles of Fire and Emergency Services Safety and Survival

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. CSU

FTC 104 (C-ID FIRE 110 X)

Fire Prevention

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: FTC 101 and FTC 102 with a minimum grade of C.

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; community risk reduction; organization and operation of a fire prevention bureau; use and application of codes and standards; plan review; fire inspections; fire and life safety education; and fire investigation. CSU

FTC 105 (C-ID FIRE 130 X)

Building Construction for Fire Protection

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: FTC 101 and FTC 102 with a minimum grade of C.

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. CSU

FTC 106 (C-ID FIRE 120 X)

Fire Protection Systems

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: FTC 101 and FTC 102 with a minimum grade of C.

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. CSU

FTC 121

Physical Fitness for Public Safety Personnel

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Corequisite: Concurrent enrollment in FTC 121L.

This lecture class provides information on exercise physiology and nutrition as it relates to public safety personnel. Topics include the components of a fitness program such as metabolic fitness, muscular fitness, body composition and flexibility. Other topics include the FITT principle, specificity, and injury prevention and treatment. CSU

FTC 121L

Physical Fitness for Public Safety Personnel - Performance and Assessment

Unit(s): 0.3 Class Hours: 18.0 Lab total.

Corequisite: Concurrent enrollment in FTC 121L.

Student will participate in physical fitness and fire-specific activities. Focus is on preparing individual fitness, health, and physical ability for job requirements. Students will be advised of the specific dates and times for the Lab/ Physical Ability Practice sessions during first week of the semester at the Lab Orientation. CSU

FRENCH (FREN)

FREN 101

Elementary French I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

A college level French course focusing on fundamentals of pronunciation and grammar, basic vocabulary (including common idioms), simple conversation and composition. Supplementary cultural readings. French 101 is equivalent to two years of high school French. CSU/UC

FREN 102

Elementary French II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: FREN 101 with a minimum grade of C or two years of high school French with a passing grade.

A college level French course focusing on further training in pronunciation and grammar, more extensive vocabulary development, conversation and composition. Supplementary cultural readings. French 102 is equivalent to the third year of high school French. CSU/UC

FREN 201

Intermediate French I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: FREN 102 with a minimum grade of C or three years of high school French with a passing grade.

A college level French class focusing on expansive review of usage and grammar; discussion in French of interpretive reading material; conversation and composition. CSU/UC

FREN 201H

Honors Intermediate French I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND FREN 102 with a minimum grade of C or three years of high school French with a passing grade.

Enhanced and intensive exploration of French civilization, culture, and literature in a seminar setting. In-depth analysis of grammatical structures. Further use of argumentative oral strategies. Independent research by students to use and evaluate library and electronic information sources. Conversation and composition. CSU/UC

FREN 202

Intermediate French II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: FREN 201 with a minimum grade of C or four years of high school French with a passing grade.

A college level French class focusing on a specialized review of grammar and composition; and discussions in French of history and culture based on literary materials. CSU/UC

FREN 202H

Honors Intermediate French II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND FREN 201 or FREN 201H with a minimum grade of C or four years of high school French with a passing grade.

Continuation of intensive exploration of French culture and literature in a seminar setting, review of specialized grammatical structures, and use of argumentative oral strategies. Continued development of conversation and composition. Independent research by students to use and evaluate library and electronic information sources. CSU/UC

FREN 211

Intermediate Conversation and Composition I

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: FREN 102 with a minimum grade of C or equivalent, or three years of high school French with a passing grade.

Intermediate conversational techniques. A review of language structure through discussion, conversation, reading and composition. Discussions of French culture and civilization. CSU/UC

FREN 214

Intermediate Conversation and Composition II

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: FREN 201 with a minimum grade of C or the equivalent, or four years of high school French, or concurrent enrollment in FREN 202.

Further development of conversational and composition skills through cultural and current events and readings. Vocabulary development and idiom usage in a cultural context. CSU/UC

GEOGRAPHY (GEOG)

GEOG 100 (C-ID GEOG 125)

World Regional Geography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The study of major world political and natural regions. Course study includes location of the regions on earth, the physical and cultural elements that lend the regions their identities, and ways in which these elements relate to the regions' inhabitants and economies. CSU/UC

GEOG 100H (C-ID GEOG 125)

Honors World Regional Geography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Enriched and intensive study, including seminar approach with individual written and oral presentations of major world political and natural regions. Course study includes location of the regions on earth, the physical and cultural elements which provide the regions with their identities, and ways in which these elements relate to the regions' inhabitants and economies. CSU/UC

GEOG 101 (C-ID GEOG 110)

Physical Geography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the physical elements of geography: maps, earth/sun relationships, meteorology and climatology, natural vegetation, soils, and geomorphology. CSU/UC

GEOG 101L (C-ID GEOG 111)

Physical Geography Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: GEOG 101.

Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography. Exercises and applications related to map scales and projections, stereoscopic, topographic and aerial photo interpretation, meteorological tools and models and weather prognostication, geomorphologic models and processes, and landform interpretation. CSU/UC

GEOG 102 (C-ID GEOG 120)

Cultural Geography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory survey of the geography of culture, and the influences of the physical environment on culture, along with the impact of human activity on the environment, and the role of culture within societies and social groups. The course includes global patterns of population, migration, religion, language, agriculture, politics, customs, resources, and urban and rural settlement. CSU/UC

GEOG 130 (GEOG 130)

Introduction to Weather and Climate

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines weather and climate patterns of the earth from a geographic perspective including atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclonic and anticyclonic systems, weather forecasting, adiabatic, climate, and climate change. A combination of may be taken a maximum of four enrollments. CSU/UC

GEOG 140 (C-ID GEOG 140)

California Geography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A thematic approach to the state's issues, processes and topics relevant to the geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical, and human landscapes that have evolved as a result of the human-environment interface. CSU/UC

GEOG 155 (GEOG 155)

Introduction to Geographic Information Systems

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces basic scientific principles of Geographic Information Systems (GIS) as they relate to working with data that have important spatial orientation and organization. Geometric and geographic concepts and theories are used to develop scientific methods for proper communication of the data and the solution of problems that have spatial relationships. Course covers basic concepts in mapping and orientation, the development of map scales and comparison of different coordinate systems and data error analysis. CSU/UC

GEOLOGY (GEOL)

GEOL 101 (GEOL 100)

Introduction to Geology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course for students in any major. Study of the internal and external processes that shape the earth (earthquakes, volcanoes, groundwater, streams, landslides). Optional field trip offered. Concurrent enrollment in Geology 101L is recommended. CSU/UC

GEOL 101L (GEOL 100L)

Introduction to Geology Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: GEOL 101 with a minimum grade of C or concurrent enrollment in GEOL 101.

Study of the common minerals and rocks. Map reading and interpretation of geology using topographic maps, geologic maps, and aerial photos. CSU/UC

GEOL 112

Earthquakes

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to earthquakes, the processes that cause them, and the results of their occurrences. Required one-day field trip. CSU

GEOL 140 (C-ID GEOL 130)

Environmental Geology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to environmental geology, the interaction between the Earth and mankind. Global study of geologic resources, resource management, geologic hazards, and waste remediation (Same as Environmental Studies 140). CSU/UC

GEOL 150

Introduction to Oceanography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity and mineral resources. (Same as Earth Science 150.) CSU/UC

GEOL 150H

Honors Introduction to Oceanography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity and mineral resources (Same as Earth Science 150H). CSU/UC

GEOL 162

Geologic Field Studies of the Mojave Desert

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

The geologic history including mountain building, volcanic activity, faulting, mineral resources and human history of the Mojave Desert region. Mandatory orientation along with a two-day field trip. May be repeated. CSU

GEOL 164

Geologic Field Studies of the Eastern Sierra Nevada

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

The geologic history including mountain building, volcanic activity, glaciation, faulting, and mineral resources of the eastern Sierra Nevada from Red Rock Canyon to Mammoth Lakes. Mandatory orientation along with a five-day field trip. May be repeated. CSU

GEOL 168

Geologic Field Studies of the Owens Valley

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A study of the volcanic, pluvial, and fault history as recorded in rocks from Red Rock Canyon to Owens Lake. Mandatory orientation along with a two-day field trip. May be repeated. CSU

GEOL 169

Geologic Field Studies of San Diego County

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Field study of the geology, ecology and history of the peninsular ranges and the San Diego County coastline. Mandatory orientation along with a two-day field study. May be repeated. CSU

GEOL 170

Geologic Field Studies of the Anza- Borrego Desert State Park

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Field study of the geology, ecology, and history of the Anza-Borrego Desert State Park. Mandatory orientation along with a two-day field study. May be repeated. CSU

GEOL 171

Geology Field Studies of Sequoia and Kings Canyon National Parks

Unit(s): 1.0 Class Hours: 27.0 Lecture total.

A study of the geologic history, structure, and tectonics of the Sequoia and Kings Canyon areas. Mandatory orientation along with a three-day field study. CSU

GEOL 172

Geologic Field Studies of the California Coast

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

A study of the coastal rocks, fossils and faults, as well as coastal oceanographic processes from Malibu to Monterey. Mandatory orientation along with a five-day field study. May be repeated. CSU

GEOL 173

Geologic Field Studies of Death Valley

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

The geologic history including mountain building, volcanic activity, faulting, mineral resources and human history of the Death Valley region. Mandatory orientation along with a two-day field trip. CSU

GEOL 174

Geologic Field Studies of Joshua Tree National Park

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

The geologic history including mountain building, volcanic activity, faulting, mineral resources and human history of the Joshua Tree region. Mandatory orientation along with a two-day field trip. CSU

GEOL 201 (C-ID GEOL 111)

Introduction to Historical Geology

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Introductory geology course investigating the former landscapes and inhabitants of the Earth as preserved in the rock record with an emphasis on North America. Two optional one-day field trips. CSU/UC

HISTORY (HIST)

HIST 101 (C-ID HIST 150)

World Civilizations to the 16th Century

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the development of world civilizations and their interrelationships from the earliest beginnings to the sixteenth century. Emphasis on basic ideas, institutions, personalities, religious traditions, and artistic achievements. CSU/UC

HIST 101H (C-ID HIST 150)

Honors World Civilizations to the 16th Century

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched approach designed for honors students that includes individual research as well as small group analysis of historical problems. Emphasis on the development of world civilizations and their interrelationships, basic ideas, institutions, personalities, and artistic achievements from the earliest beginnings to the sixteenth century. CSU/UC

HIST 102 (C-ID HIST 160)

World Civilizations Since the 16th Century

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present day society. CSU/UC

HIST 102H (C-ID HIST 160)

Honors World Civilizations Since the 16th Century

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched approach designed for honors students with emphasis on individual research as well as small group analysis of historical problems. Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present day society. CSU/UC

HIST 105

Ancient Mesoamerican Civilization

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An archeological and ethnohistorical survey of the origin and development of pre-Columbian civilizations in ancient Mesoamerica from Paleo-Indian times to the Spanish conquest. (Same as Anthropology 105.) CSU/UC

HIST 118

Social and Cultural History of the United States

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines social and cultural traditions during major historical periods. Focuses on American attitudes and response to economic and technological changes, aesthetics, music, art, language, architecture, folklore, high and popular culture. CSU/UC

HIST 120 (C-ID HIST 130)

The United States to 1865

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines major political, economic, intellectual, and social forces at home and abroad that shaped American life from the colonial period through the Civil War. CSU/UC

HIST 120H

Honors The United States to 1865

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Seminar-style, content-enriched course for Honors students that examines major political, economic, intellectual, and social forces at home and abroad shaping American life from colonial period through Civil War. CSU/UC

HIST 121 (C-ID HIST 140)

The United States since 1865

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A critical analysis of American history. Includes industrial and technological development, the changing nature of society, cultural developments, domestic politics, and America's expanded world role. CSU/UC

HIST 121H (C-ID HIST 148)

Honors The United States since 1865

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Seminar-style, content-enriched course for honors students exploring a critical analysis of American history including industrial and technological development, the changing nature of society, cultural patterns, domestic politics, artistic attainments, and America's expanded world role. CSU/UC

HIST 123

African American History to 1865

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Surveys the history of African Americans in the United States from their African origins through the Civil War. Emphasizes African American impact on U.S. economic and political life, and highlights the effect slavery had on selected American thinkers. CSU/UC

HIST 124

Mexican American History in the United States

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of Mexican American history in the U.S. from the Pre-Columbian period to the present.

Emphasis on Mexican American contributions to the political, social, economic, and cultural development of the U.S. Will also examine the relationship of Mexican Americans to other cultural groups. CSU/UC

HIST 124H

Honors Mexican American History in the United States

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Enriched and intensive survey of Mexican American history in the U.S. from the Pre- Columbian period to the present. Utilizing a seminar approach, emphasis on Mexican American contributions to the political, social, economic, and cultural development of the U.S. Will also examine the relationship of Mexican Americans to other cultural groups. CSU/UC

HIST 125

Native Americans in the U.S.

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An historical and contemporary survey of Native Americans in the United States, including the development of tribes and nations, and the cultural practices of Native Americans today. Field trips may be required. (Same as Anthropology 125) CSU/UC

HIST 127

Women in U.S. History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Women of European, African, Native, Hispanic, and Asian backgrounds examined in U.S. 1607-present. Emphasis on individuation, social status, family, reproduction, child care, slavery, jobs, and political activism. Legal impact and theories of patriarchal oppression raised. CSU/UC

HIST 133

History of California

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the major social, political, and economic developments that have shaped

California history from the indigenous period to the present. Special attention is given to regional issues, ethnic or cultural groups, constitutional matters, cultural change, and California's connection with the Pacific Basin. CSU/UC

HIST 146

African American History from 1863 to the Present

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of the history of African Americans in the United States from Reconstruction to the present. Focuses on the economic, political and social aspects of racism and the varied efforts to advance civil rights. CSU/UC

HIST 150

Latin American Civilization to Independence

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of Latin American civilization from the Indian, African, and European origins to Independence. Topics include native cultures, Spanish and Portuguese colonialism, the evolution of regional societies, and intellectual trends. CSU/UC

HIST 151

Modern Latin American Civilization

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Latin American civilization in the nineteenth and twentieth centuries with a focus on the historical background of contemporary conditions and issues. Major and minor countries studied. CSU/UC

HIST 153

History of Mexico

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Mexican history from the pre-Columbian period to the present. Includes social, political, economic, and cultural growth of the Mexican nation. Emphasis on cultural and political development. CSU/UC

HIST 163

Introduction to Southeast Asian History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analyzes the general history of Southeast Asia's society, economy, government, religion, philosophy, and the arts. Also includes the impact of the West, decolonization and national unification movements during the Cold War, and the historical background of contemporary social and political problems. CSU/UC

HIST 181

Survey of Chicana/Latina Women's History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of the historical roots of modern-day Chicana/Latina women. Course will discuss women in pre-Columbian America, colonial women in Mexico and the Southwest U.S., as well as Chicana/Latina women in a national/ international context, labor, and culture. CSU/ UC

INTERDISCIPLINARY STUDIES (IDS)

IDS 121

Humanities Through the Arts

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the humanities through a study of seven major art forms: film, drama, music, literature, painting, sculpture and architecture. Artistic works are considered from the perspectives of historical development, the elements used in the creation process, artistic form, and meaning expressed. CSU/UC

IDS 155

Human Sexuality

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An interdisciplinary review of the biological development and psychological influences across the lifespan, including neuroscience research and sociocultural considerations in the areas of gender, attraction, attachment, love, sexual orientations, anatomy, sexual arousal and response, conception, contraception, reproduction, health, including sexual coercion and sexually transmitted infections. CSU/UC

IDS 200

Introduction to Liberal Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

This survey course explores the historical foundations and interdisciplinary nature of Liberal Studies. Students will examine the nature, history, and intersections of prevailing ideas on a specific topic through the arts and humanities, social and political thought, and scientific inquiry. Readings will reflect gender and cultural diversity. CSU/UC

ITALIAN (ITAL)

ITAL 120

Elementary Italian I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Pronunciation, grammar, speaking, reading, listening, writing, common idioms, and cultural insights. Italian 120 is equivalent to 2 years of high school Italian. CSU/UC

ITAL 121

Elementary Italian II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: Italian 120 with a minimum grade of C or two years of high school Italian. All public four year institutions in California require Italian I or Italian 120, as a prerequisite of Italian 2, or Italian 121.

Mastery of pronunciation and basic grammatical structures. Further training in reading, writing, and speaking to promote fluent and idiomatic communication. Italian 121 is equivalent to the third year of high school Italian. CSU/UC

JAPANESE (JAPN)

JAPN 101

Elementary Japanese I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

A college level Japanese course focusing on fundamentals of pronunciation and grammar, basic vocabulary (including common idioms), simple conversation, and composition. Supplementary cultural readings. Japanese 101 is equivalent to two years of high school Japanese. CSU/UC

JAPN 102

Elementary Japanese II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: Japanese 101 with a minimum grade of C or equivalent, or two years of high school Japanese with a passing grade.

A college level Japanese course focusing on further training in language skills, providing avenues for the expression of ideas in both oral and written forms. Additional study of culture. Japanese 102 is equivalent to the third year of high school Japanese. CSU/UC

KINESIOLOGY ACTIVITIES (KNAC)

KNAC 098

Topics

Unit(s): 0.5-1.0 Class Hours: 24.0-54.0 Lab total.

Specialized activities courses on topics related to special needs of Kinesiology students.

KNAC 107A

Beginning Badminton

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to introduce students to a racket sport, the sport of badminton.

Emphasis is placed on the proper technique of the basic skills required in badminton, rules, scoring, and safety. Instruction and practice will include the proper grip, under-hand serve, drives, clears, drops, and smashes. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

KNAC 107B

Intermediate Badminton

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 107A with a minimum grade of C.

This course is designed to review and solidify the basic techniques and rules associated with the game of badminton. Emphasis is placed on proper footwork and the technical aspects associated with the game. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNAC 107C

Advanced Badminton

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 107B with a minimum grade of C.

This course is designed to review and solidify the proper footwork and intermediate techniques associated with the game of badminton. Emphasis is placed on tactical game awareness of both singles and doubles play. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNAC 123

Personal Fitness Training

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Activity course designed to assist students in mastering effective lifestyles, and nutritional, cardiovascular, and resistance training techniques crucial for personal fitness and personal growth. Goal setting and motivation, time management, stress management, as well as development of an individual fitness routine and execution of that routine are the primary topics. CSU/UC

KNAC 140A

Beginning Karate

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to offer instruction in the Japanese art of Karate for beginning level students. Basic movements such as stances, blocking, kicking and striking are taught. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNAC 150A

Beginning Hatha Yoga

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed as an introduction to the practice of Hatha Yoga. Emphasis will be placed on proper breathing techniques and learning basis yoga postures. These postures are designed to improve muscle tone and flexibility, as well as helping with breath control, relaxation, and unity of mind, body, and spirit. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 150A, 170A, and Kinesiology Aerobic Fitness 150A may be taken a maximum of four enrollments. CSU/UC

KNAC 155A

Beginning Self-Defense

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction in personal safety and self- protection including the effective use of hands, knees, elbows, feet, and the mind. Proficiency with everyday objects such as weapons and defense against common street weapons is also stressed. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

KNAC 160A

Beginning Tennis

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction and practice in the fundamental skills basic to the successful performance of tennis. These skills include grip and body mechanics involved with the forehand, backhand, serve, lob, smash, and net play. Etiquettes, court strategy, and rules will be covered in singles and doubles play. Tournament play will be introduced. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

KNAC 169A

Beginning Wrestling

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Fundamentals of wrestling skills and techniques. Take-downs, escape, analysis of opponent's strengths and weaknesses will be considered. Student will master rules, regulations, and ethics of the activity. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four Enrollments. CSU/UC

KNAC 169B

Intermediate Wrestling

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: KNAC 169A with a minimum grade of C.

Intermediate wrestling skills and techniques. Appropriate conditioning for wrestling competitive is developed. Fundamental skills are reviewed then focus shifts toward developing proficient intermediate skills such as striking, kicking, blocking, and grappling.

CSU/UC

KNAC 170A

Beginning Yoga

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to increase flexibility and core muscle strength as a way of improving and enhancing physical and mental alertness through beginning yoga postures.

Emphasis will be placed on mind body preparation and the proper technique necessary to perform these postures. This course is offered as a half unit or one-unit class and may not be repeated. A combination of may be taken a maximum of four enrollments. CSU/UC

KNAC 200A

Beginning Intramural-Basketball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class is designed to introduce/better acquaint students to the game of basketball. Emphasis is placed on rules, techniques, safety, and improving performance. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 200B

Intermediate Intramural Sports- Basketball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 200A with a minimum grade of C.

This class is designed to provide students with an opportunity to participate and compete against classmates in the sport of basketball. Instruction focuses on improving performance in all aspects of the game of basketball: defense, offense, strategies, and special situations. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 200C

Advanced Intramural Basketball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 200B with a minimum grade of C.

This class is designed to provide students with an opportunity to participate and compete against classmates in the sport of basketball. Instruction focuses on improving performance in all aspects of the game of basketball: advanced defense, advanced offense, advanced strategies, and special situations associated with the game of basketball. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 211A

Beginning Baseball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Beginning fundamentals of fielding, throwing and hitting. Includes play situations with an emphasis on team offensive and defensive strategy. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B,

226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 211B

Intermediate Baseball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 211A with a minimum grade of C.

Intermediate fundamentals designed to help prepare the student for baseball competition. Students will learn offensive skills, defensive skills, and communication under competitive game conditions. This course is offered as a half-unit or one-unit class and may not be repeated A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 220A

Beginning Basketball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Co-educational team sport activity which provides basic skills and techniques are refined at the beginner level. Rules, game strategies, and competitive activities are included. This course will be offered as a half-unit or one-unit course and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 220B

Intermediate Basketball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 220A with a minimum grade of C.

Co-educational team sport activity which provides intermediate instruction in the techniques, tactics and strategies associated with competitive basketball. Special emphasis placed on individual drills and skills such as catching, dribbling, passing, shooting, offensive and defensive strategies are utilized as well as competitive play situations. This course will be offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 220C

Advanced Basketball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 220B with a minimum grade of C.

Co-educational team sport activity for students with advanced skills. Review of basic fundamental skills and emphasis on advanced development of skills and strategies associated with competitive basketball. This course will be offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 226A

Beginning Water Polo

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Students must be able to swim and be comfortable exercising in deep water.

Instruction and experience in the fundamentals and strategies of water polo. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 230A

Beginning Flag Football

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This is a physical activity course designed to provide instruction and practice in the basic skills, techniques, fundamentals, strategies, and rules of the game of flag football. These activities are based on a beginning level. This course will be offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 230A, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 260A

Beginning Soccer

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is an introduction to the beginning skills and rules associated with the sport of soccer. Emphasis will be placed on the proper technique used for these beginning skills as well as FIFA Laws of the Game. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 260B

Intermediate Soccer

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 260A with a minimum grade of C.

This course is designed to review and solidify the proper techniques associated with outdoor soccer and FIFA Laws of the Game. The intermediate skills necessary as well as the tactical aspects of the game will be introduced. Emphasis will be placed on improving the student's technical abilities and tactical team formations used in the game of soccer. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 260C

Advanced Soccer

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 260B with a minimum grade of C.

This course is designed to review and solidify the proper techniques associated with intermediate level outdoor soccer as well at the tactical aspects that were introduced. Emphasis will be placed on complete technical and tactical match preparedness and awareness.

This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 265A

Beginning Indoor Soccer

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course in an introduction to the beginning skills and rules associated with the sport of indoor soccer. Emphasis will be placed on the proper technique used for these beginning skills as well as the rules of the game. CSU/UC

KNAC 265B

Intermediate Indoor Soccer

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 265A with a minimum grade of C.

This course is designed to review and solidify the proper techniques and rules associated with the game of soccer (indoor). The intermediate skills necessary as well as the tactical aspects of the game will be introduced. Emphasis will be placed on improving the student's technical abilities and tactical team formations used in the game of soccer (indoor). This course is offered as a half unit or one-unit class and may not be repeated. A combination of KNAC 265B may be taken a maximum of four enrollments. CSU/UC

KNAC 265C

Advanced Indoor Soccer

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAC 265B with a minimum grade of C.

This course is designed to review and solidify the proper techniques associated with intermediate level indoor soccer as well as the tactical aspects that were introduced. Emphasis will be placed on complete technical and tactical match preparedness and awareness.

This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNAC 270A

Beginning Softball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Fundamentals of fielding, throwing, hitting, and base running. Includes play situations and an emphasis on team offensive and defensive strategy. This course will be offered as a half- unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 280

Track and Field

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Track and field provide instruction and practice in the fundamentals, skills and techniques of all track and field events. It provides a conditioning program involving event-specific running and event-specific techniques and drills. This course is offered as a half unit or one-unit class and may not be repeated. CSU

KNAC 290A

Beginning Volleyball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction and practice in fundamental skills techniques, strategies, basic rules, team offense and defense, and team concepts of Volleyball. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KNAC 290B

Intermediate Volleyball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: KNAC 290A with minimum a grade of C.

An intermediate volleyball activities course. Emphasis will be placed on intermediate technical skill development, offensive and defensive systems analysis, and sport specific physical fitness assessment and conditioning activities. This course will be offered as a half- unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

KINESIOLOGY ADAPTED ACTIVITIES (KNAD)

KNAD 098

Topics

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

Specialized courses on topics related to the special needs of students with disabilities and chronic conditions as related to health and fitness. Not offered every semester.

A combination of may be taken a maximum of four enrollments. (Pass/No Pass Only)

KNAD 198

Topics

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

Specialized courses on topics related to the special needs of students with physical limitations as related to exercise fitness. Not offered every semester. May be repeated. CSU

KNAD 201A

Beginning Adapted Swimming

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to experience the benefits of swimming. Individualized exercise programs are designed to teach students adaptive strategies and beginning level techniques for pool entry/exit, breathing, and swim strokes to meet their individual needs. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

KNAD 202A

Beginning Adapted Circuit Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

This class is designed for students with disabilities and chronic conditions to experience the benefits of circuit training. Individualized exercise programs are designed to teach students adaptive strategies and beginning level techniques to meet their individual needs. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 202A, 202B, Kinesiology Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, and 110C may be taken a maximum of four enrollments. CSU/UC

KNAD 202B

Intermediate Adapted Circuit Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAD 202A with a minimum grade of C.

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to increase their knowledge and skills competence in circuit training. Individualized exercise programs are designed to teach students adaptive strategies and intermediate level techniques to meet their individual needs. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 202A, 202B, Kinesiology Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, and 110C may be taken a maximum of four enrollments. CSU/UC

KNAD 205A

Beginning Adapted Badminton

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

This course is designed for students with disabilities and chronic conditions to introduce the fundamentals of badminton play. Striking skills, rallying, teamwork, rules, and court strategy are presented to meet the developmental needs of each student. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

KNAD 208A

Beginning Adapted Aerobic Fitness

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to experience the benefits of aquatic activities. In a group exercise setting, students are taught adaptive strategies and beginning level techniques for cardiovascular, balance, resistance, and core training. No swimming skills required. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

KNAD 211B

Intermediate Adapted Aquatics

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAD 211A with a minimum grade of C.

Corequisite: Adapted Kinesiology Medical Release Form required.

This class is designed for students with disabilities and chronic conditions to increase their knowledge and skills competence in aquatic activities. In a group exercise setting, students are taught adaptive strategies and intermediate level techniques for cardiovascular, balance, resistance, and core training. No swimming skills required. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

KINESIOLOGY AEROBIC FITNESS (KNAF)

KNAF 098

Topics

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Specialized aerobic fitness courses related to the needs of Kinesiology students (Pass/No Pass Only).

KNAF 140A

Beginning Walking/Jogging for Fitness

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course will emphasize cardiovascular walking/jogging for health and fitness for men and women who are interested in instruction and practice in cardiovascular conditioning. The walking/jogging class is designed to decrease the risk of coronary heart disorders by increasing heart efficiency, vital lung capacity, and the knowledge of each through aerobic and anaerobic conditioning. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140A, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

KNAF 143A

Boot Camp Workout

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction in overall fitness development. The program develops overall fitness and challenges students to perform aerobic, anaerobic, strength, plyometric and agility exercises to their individual highest level. It uses a variety of environments (i.e. beach, strength lab, track, field, etc). This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNAF 144A

Beginning Cross Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class will be comprised of aerobic workouts designed to introduce the student to the concept of cross training and trying different work-outs. The class will be divided into sections including walk/jog, step training, cardio boxing, weight training, and flexibility work-outs. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Aerobic Fitness 144A, Kinesiology Fitness 147A and 147B may be taken a maximum of four enrollments. CSU/UC

KNAF 146A

Beginning Stability Ball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A core training and strengthening workout using stability balls and free weights (dumbbells) to build core strength and functional fitness. Designed to tone the entire body with special emphasis on progressively improving posture, balance, flexibility, core strength and coordination. This course will be offered as a half-unit or one-unit class and may not be repeated. CSU/UC

KNAF 146B

Intermediate Stability Ball Training

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: KNAF 146A with a minimum grade of C.

An intermediate core training and strengthening workout using stability balls and free weights (dumbbells) to build core strength and functional fitness. Designed to tone the entire body with special emphasis on progressively improving posture, balance, flexibility, core strength and coordination. CSU/UC

KNAF 150A

Beginning Stretch, Flex and Tone

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A combination of stretching and toning exercises to increase strength, flexibility, and overall body fitness. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 150A, 170A, and Kinesiology Aerobic Fitness 150A may be taken a maximum of four enrollments. CSU/UC

KNAF 156A

Beginning Cardio Kickboxing

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A series of boxing and kickboxing exercises are arranged to music, gradually increasing in tempo with a greater emphasis on a non-stop 25-30-minute program. Kicks, punches, calisthenics, and rope jumping are combined to elevate heart rate and strengthen all major muscle groups. Students will learn to apply these self-defense techniques on kick pads and focus mitts to improve accuracy and provide resistance for the muscles. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic

Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

KNAF 156B

Intermediate Cardio Kickboxing

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNAF 156A.

A series of boxing and kickboxing exercises are arranged to music, gradually increasing in tempo with a greater emphasis on a non-stop 25-30-minute program. This class is designed to increase competence in kicking and punching, calisthenics, and rope jumping in various combinations to improve fitness. Students will further develop intermediate level self-defense techniques on kick pads and focus mitts to improve accuracy and provide resistance for the muscles. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

KNAF 157A

Beginning Cardio Pump

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction in overall fitness development. This class is designed to incorporate weight lifting into a cardiovascular routine. It develops strength and endurance of all major muscle groups using routines performed to music. A combination of Kinesiology Activities 123, Kinesiology Adapted

Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

KNAF 198

Topics

Unit(s): 0.5-1.0 Class Hours: 24.0-54.0 Lab total.

Specialized aerobic fitness courses on topics related to the needs of Kinesiology students. CSU

KINESIOLOGY AQUATICS (KNAQ)

KNAQ 198

Topics

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Specialized aquatics course on topics related to the needs of Kinesiology students. CSU

KNAQ 201A

Beginning Swimming

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction and experience in the basic stroke techniques and safety procedures of swimming. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

KNAQ 201B

Lap Swimming

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Prior experience with basic swim strokes, turns, and treading water.

Individualized swimming program designed to improve swimming techniques and cardiovascular fitness. Emphasis on endurance training. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

KINESIOLOGY FITNESS (KNFI)

KNFI 098

Topics

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0Lab total.

Specialized fitness activities courses on topics related to the needs of Kinesiology students (Pass/No Pass Only).

KNFI 112A

Beginning Circuit Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

An introduction to fundamental principles and practices of circuit training including safety, using cardiovascular and resistance machines, and components of exercise. This course provides the basics of a comprehensive exercise program that combines cardiovascular exercises with strength training. This course is offered as a half-unit or one-unit class and may not be repeated. CSU/UC

KNFI 112B

Intermediate Circuit Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNFI 112A with a minimum grade of C/P.

A continuation of exercise principles and practices of circuit training covered in Beginning Circuit Training. This course is designed to help students increase cardiovascular conditioning using a combination of resistive strength exercises and endurance training. Must complete Beginning Circuit Training prior to enrollment. This course is offered as a half-unit or one-unit class and may not be repeated. CSU/UC

KNFI 112C

Advanced Circuit Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNFI 112B with a minimum grade of C/P.

An individualized fitness program developed to promote lifetime fitness. Employs a combination of cardiovascular machines (treadmill, steppers, bicycles, elliptical, rower, etc.), and resistance machines. This course is designed as a continuation of Intermediate Circuit Training and promotes increased cardiovascular and muscular endurance. Educates students on the principles of nutrition and the body's adaptation to exercise. This course is offered as a half-unit or one-unit class and may not be repeated. CSU/UC

KNFI 114A

Beginning Spinning

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class is geared towards improving one's cardiovascular fitness and muscular strength through a spinning program on a stationary bike. The program covers two basic types of terrain: flat roads and hills through changes in resistance and positions. Spinning emphasizes everyone's individual needs, regardless of athletic ability, taught in a group atmosphere. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNFI 114B

Intermediate Spinning

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Individualized spinning program designed to improve spinning technique and cardiovascular fitness. Emphasis on endurance training. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNFI 115A

Beginning Cardiovascular Conditioning

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is offered as a half-unit or one-unit class and may not be repeated. A basic course designed for those people who desire a cardiovascular work-out using a combination of equipment such as stationary bikes, ellipticals, treadmills, rowers, etc. This course will cover elemental information as it regards to aerobic conditioning. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted

Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

KNFI 115B

Intermediate Cardiovascular Conditioning

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A course designed for those people who desire a cardiovascular work-out using a combination of equipment such as stationary bikes, ellipticals, treadmills, rowers, etc. This course is a continuation of Beginning Cardiovascular Conditioning and is designed to help students increase their cardiovascular endurance developed as a beginner. This course will cover topics as they relate to aerobic conditioning. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

KNFI 115C

Advanced Cardiovascular Conditioning

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A continuation of Intermediate Cardiovascular Conditioning. This course is designed for students to increase their cardiovascular conditioning using a combination of machines (bicycles, treadmills, ellipticals, etc.), advanced fitness concepts as they relate to lifelong fitness levels will be covered. This course provides students with the opportunity to elevate their endurance and cardiovascular levels to the high-end of the aerobic range. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

KNFI 147A

Beginning Weight Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Introductory instruction in basic weight lifting concepts and experiential practice in large muscle area development utilizing guided and free weights. Development will be in muscle size or tone and strength or endurance. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KNFI 147B

Intermediate Weight Training

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Prerequisite: KNFI 147A with a minimum grade of C.

This course is designed for students to increase their knowledge and skills competence in large muscle area development utilizing free weights. Individualized exercise programs are designed to teach students intermediate level strategies and techniques. Development will be in muscle size or tone and strength or endurance. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

KINESIOLOGY HEALTH EDUCATION (KNHE)

KNHE 098

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized health-related courses on topics related to the needs of Kinesiology students. (Pass/No Pass Only.)

KNHE 101

Healthful Living

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A comprehensive look at factors that impact people's health, longevity and lifetime wellness. Areas covered will be personal fitness, nutrition, drugs, alcohol and tobacco, AIDS and sexually transmitted diseases, and degenerative diseases including cancer, heart disease, strokes and diabetes. CSU/UC

KNHE 102

Women's Health Issues

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An investigation into traditional and holistic health topics with a special emphasis on women's issues, considering all aspects and concepts of social and political influences, nutrition and fitness, relationships, sexuality, reproductive issues, and careers. Through analysis of these topics, students apply methods to healthy lifestyle choices. CSU/UC

KNHE 103

Men's Health Issues

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the societal, economic, cultural, and gender influences that shape men's health beliefs and practices. Explores specific health issues unique to men such as accessing health care, healthy relationships, domestic abuse, prostate cancer, and alcohol use. Critically examines literature and media to identify interventions within a masculinity framework to improve men's health outcomes. Identification of positive outcomes of healthy men at home, work, and in society. CSU/UC

KNHE 104

Nutrition and Fitness

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

An applied nutrition course to improve the nutrition and health of active individuals. The course will focus on lifestyle, disease prevention, fitness, weight control, and the basic concepts of good nutrition. CSU/UC

KNHE 106

Cardiopulmonary Resuscitation and First Aid

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements. CSU/UC

KNHE 108

Stress Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines productive and nonproductive stress and the influence of various types of stress on health and wellness. Topics include the physiological aspects of stress and its effects on health, assessments of personal coping style, strategies for coping effectively with stress, relaxation techniques, mindful awareness, and positive self-talk. Emphasis is placed on practical application of stress management techniques in daily life. CSU

KNHE 198

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized health-related courses on topics related to the needs of Kinesiology students. (Pass/No Pass Only.) CSU

Kinesiology Intercollegiate Athletics (KNIA)

KINESIOLOGY INTERCOLLEGIATE ATHLETICS (KNIA)

KNIA 098

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized athletics courses on topics related to the needs of student-athletes. (Pass/No Pass Only.)

KNIA 125

Conditioning for Football

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Students should be in good physical health and be able to safely engage in the course content.

This class is designed to prepare the college football athletes to play offense, defense, and special teams. The focus is on skill development and conditioning through resistance training and field work. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 128

Conditioning for Athletes

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

An exercise program designed for athletes who participate in intercollegiate sports. Emphasis will be on the development of speed, endurance, flexibility, and strength. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 133

Off Season Swimming

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: KNAQ 201A with a minimum grade of C or equivalent high school experience.

This course is designed as an advanced aquatics class for student athletes with exceptional swimming talent who have an interest in skills development and conditioning for intercollegiate swimming. Emphasis is placed upon developing competitive strokes and strategies as well as learning collegiate swimming rules and regulations. A variety of training techniques geared toward building strength, speed, and endurance will be implemented. This course is offered as a half- unit or one-unit class. May be repeated. CSU/UC

KNIA 171

Wrestling - Off-Season

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed as a skills development and conditioning class for student athletes interested in wrestling. Fundamentals of wrestling, analysis of opponent's strengths and weakness, and knowledge of rules and regulations of the sport are presented. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 198

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized athletics courses on topics related to the needs of student-athletes (Pass/No Pass Only). CSU

KNIA 201

Baseball Men

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: High school or higher-level baseball experience.

This course is designed for student-athletes with exceptional baseball talent who intend to transfer and play baseball at the 4-year or professional level. Emphasis is on application of collegiate baseball rules and regulations, offensive and defensive fundamentals and strategies and mental strategies for intercollegiate sports competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 202

Basketball-Men

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This course is designed for student athletes with exceptional basketball talent so they may compete in intercollegiate basketball. Emphasis is placed upon application of collegiate basketball rules and regulations, offensive and defensive skills and strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

KNIA 204

Football-Men

Unit(s): 3.0 Class Hours: 162.0 Lab total.

Recommended Preparation: To compete at the collegiate level, students should have prior experience at the high school or club level and must be physically able to safely participate in intercollegiate athletics. If no prior experience is inherent, then tangible attributes such as height, weight, strength, and speed results can be utilized to assess ability.

This course is designed for students with exceptional football talent so they may compete in intercollegiate football. The program provides competition with conference colleges as well as with other California community colleges. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 206

Swimming-Men

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This class is designed for student athletes with exceptional swimming talent so they may compete in intercollegiate swimming. Emphasis is placed upon stroke technique, starts and turns, and collegiate rules and regulations. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 209

Water Polo-Men

Unit(s): 3.0 Class Hours: 162.0 Lab total.

This course is designed for student athletes with exceptional water polo talent so they may compete in intercollegiate water polo. Emphasis is placed upon application of collegiate water polo rules and regulations, offensive and defensive strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

KNIA 210

Wrestling-Men

Unit(s): 3.0 Class Hours: 162.0 Lab total.

This course is designed for student athletes with exceptional combative skills so they may compete in intercollegiate wrestling. Emphasis is placed on successful techniques and strategies for intercollegiate competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 211

Softball-Women

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation High school varsity softball experience.

This course is designed for student-athletes to participate in intercollegiate softball competition. A high-level, competitive program for student athletes with exceptional softball talent. Emphasis is placed upon application of collegiate softball rules and regulations as well as defensive and offensive skills and strategies. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 212

Basketball--Women

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This course is designed for student-athletes with exceptional basketball talent so they may compete in intercollegiate competition. Emphasis is placed upon application of collegiate basketball rules and regulations, offensive and defensive skills and strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 213

Volleyball-Women

Unit(s): 3.0 Class Hours: 162.0 Lab total.

This course is designed for student athletes with exceptional volleyball talent so they may compete in intercollegiate competition. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, sport specific physical fitness. Students must meet the California Community College Athletic Association eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

KNIA 216

Soccer-Men

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student- athlete sport competition. Emphasis is placed on advanced technical and tactical development. Students must meet CCCAA eligibility requirements and pass a health screening prior to competition. May be repeated. CSU/UC

KNIA 217

Swimming-Women

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: KNIA 133 with a minimum grade of C or high school swim team experience.

This class is designed for student-athletes with exceptional swimming talent so they may compete in intercollegiate swimming. Emphasis is placed upon stroke technique, starts and turns, and collegiate rules and regulations. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 218

Track-Women

Unit(s): 3.0 Class Hours: 162.0 Lab total.

Recommended Preparation: Successful interscholastic track and field and/or cross-country experience or equivalent.

This course is designed for student athletes with advanced running skills so they may compete in intercollegiate track. Emphasis is placed upon application of track & field techniques, advanced training modalities, rules and regulations of the sport, and strategies for successful intercollegiate competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC**KNIA 219**

Cross Country-Women

Unit(s): 3.0 Class Hours: 162.0 Lab total.

Recommended Preparation: Successful interscholastic cross country and/or track and field experience or equivalent.

This course is designed for student athletes with advanced running skills so they may compete in intercollegiate cross country. Emphasis is placed upon application of cross-country techniques, advanced training modalities, rules and regulations of the sport and strategies for successful intercollegiate competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 220

Soccer-Women

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student- athlete sport competition. Emphasis is placed on advanced technical and tactical development. Students must meet CCCAA eligibility requirements and pass a health screening prior to competition. May be repeated. CSU/UC

KNIA 221

Water Polo-Women

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: KNIA 227 with a minimum grade of C or former high school water polo team experience.

This course is designed for student athletes with exceptional water polo talent so they may compete in intercollegiate water polo.

Emphasis is placed upon application of collegiate water polo rules and regulations, offensive and defensive skills and strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

KNIA 223

Baseball

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: High school or higher-level baseball experience.

This course is designed for skill development and conditioning for intercollegiate baseball players. Emphasis is placed upon instruction and training in the skills, fundamentals, knowledge, strategies, conditioning, and teamwork required for intercollegiate level baseball. This course is offered as a half-unit or one-unit class in the class schedule. May be repeated. CSU/UC

KNIA 227

Off Season Waterpolo

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to provide skills development and conditioning for competitive waterpolo players to prepare for intercollegiate competition. Emphasis is placed upon instruction and experience in the fundamentals and strategies of the sport of water polo. This course is offered as a half-unit or one-unit class in the class schedule. May be repeated. CSU/UC

KNIA 230

Preseason Football

Unit(s): 0.5 Class Hours: 4.5 Lecture, 18.0 Lab total.

Prerequisite: Health screening clearing student to participate in collegiate football.

This is an intensive course designed to prepare student athletes for a season of competition in intercollegiate football. It will include field work, classroom meeting time, and resistance training. The focus is skill development and preparation for a season of competition. It is included as part of the 175 contact hours allowed for student-athlete skill development and conditioning. Students must have a current health screening and doctor clearance to participate. May be repeated. CSU/UC

KNIA 231

Football Camp

Unit(s): 1.0 Class Hours: 9.0 Lecture, 36.0 Lab total.

Recommended Preparation: Students must be of good health, physically fit, and either have experience at the collegiate, high school, or club level of football, or possess the tangible size and speed of a collegiate prospect.

This is an intensive course designed to prepare student athlete for a season of competition in intercollegiate football. It will include field work, classroom meeting time, and resistance training. The focus is skill development and preparation for a season of competition. It is included in the 175 hours allotted to football for offseason development. May be repeated. CSU/UC

KNIA 232

Football

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Student should be of good health and can safely engage in course content.

Basic elements of the game including fundamental skills in stance, footwork, tackling and blocking techniques will be presented. Offensive and defensive formations and strategies will be practiced. The focus is skill development and conditioning, and is included in the 175 hours allotted to football for offseason development. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 235

Speed and Agility

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class includes instruction on linear speed, non-linear speed, and jumping ability using state of the art plyometric training and speed specific training tools. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 240

Advanced Basketball Skills-Men

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class is designed to focus on skill development and sport conditioning for basketball players with exceptional talent. Emphasis is placed upon application of basketball training techniques, offensive and defensive skills and strategies, and rules and regulations of the game. May be repeated. CSU/UC

KNIA 261

Soccer-Women

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student-athlete sport conditioning and technical and tactical skill development. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 262

Soccer-Men

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation:

This soccer class is designed for student-athlete sport conditioning, and technical and tactical skill development. This course is offered as a half-unit or one-unit class as scheduled. May be repeated. CSU/UC

KNIA 270

Softball

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Recommended Preparation: High school or higher-level softball experience.

This course is designed for skill development and conditioning for intercollegiate softball players. Fundamentals of fielding, throwing, hitting, and base running. Includes play situations and an emphasis on team offensive and defensive strategy. May be repeated. CSU/UC

KNIA 271

Softball - Off Season

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed for skills development and conditioning for exceptional softball players interested in intercollegiate competition. Basic skills and fundamentals of catching, throwing, pitching, hitting and baserunning will be discussed. Offensive and defensive techniques and strategies will be practiced. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 281

Track and Field - Off Season

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to provide skills development and conditioning for intercollegiate track and field athletes. Students learn the principles of team building while preparing for individual event specific activities. The focus will be on improving event specific technical skills, training methods, and mental set for competitive performance in track and field. Field trips to next level track and field events may occur. This course will be scheduled as a half-unit or one-unit class in the schedule. May be repeated. CSU/UC

KNIA 291

Volleyball - Off Season

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed as a high-level conditioning and skills development program for volleyball players with exceptional talent. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

KNIA 293

Sand Volleyball

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This course is designed for student athletes so they may compete in intercollegiate sand volleyball. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, sport specific physical fitness. Students must meet the California Community College Athletic Association eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

KINESIOLOGY PROFESSIONAL (KNPR)

KNPR 101 (C-ID KIN 100)

Introduction to Kinesiology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. CSU/UC

KNPR 110

Kinesiology-related Occupational Work Experience

Unit(s): 1.0-8.0

Prerequisite: Prerequisite: Students must be concurrently enrolled or have completed KNSM 101 or the Fitness Specialist Certificate Program. Application must be approved by the Kinesiology Department Chair.

This work experience course consists of supervised paid or unpaid employment in an Athletic, Allied Health, or Fitness related setting. It is designed to assist students in acquiring desirable work habits, attitudes, and skills related to the student's educational major. Credit may be accrued at the rate of one to eight units per semester for a maximum of sixteen units. Seventy-five hours of paid work or sixty hours of unpaid work equals one unit of credit. Student repetition is allowed per title 5 section 55253; however, only 1 unit may be applied toward major requirements or a certificate. CSU

KNPR 125

Sport Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An academic and practical examination of the psychological aspects of sport concentrating on the scientifically proven methods of enhancing athletic performance through psychological training. CSU

KNPR 150

Sport and Society

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the role of sport in modern society. Looks at how sport influences and shapes global attitudes among nations. Investigates the historical, social, economic, and political impact of sport on society. CSU

KNPR 155

Theory of Soccer

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course is designed for the competitive soccer player. Students will learn and develop a further understanding of the game of soccer. Laws of the game, offensive and defensive techniques and tactics, and the physical preparation for becoming a soccer player will be discussed. CSU/UC

KNPR 156

Sport Psychology Applications - Soccer

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course provides advanced mental training to improve soccer performance. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for soccer competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self-assess readiness for transfer and the selection of transfer program. CSU

KNPR 160

Management of Physical Education and Sport

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines all aspects of sports administration including the management process, organization of interscholastic and intercollegiate sports, human resources, fiscal issues, legal liability, and public relations. The course is intended for students interested in a career in physical education, coaching, fitness, and sports administration. CSU

KNPR 165

Theory of Softball

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

A general overview of rules, regulations, strategies, mental preparation, skill evaluation, and the history of the sport of softball. Includes strategies and winning techniques of the game. CSU/UC

KNPR 170

Sport Ethics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A class designed to examine ethics, moral questions, and value judgements related to sport. Its approach allows students to follow and analyze ethical arguments, think through philosophical issues, and apply them to the artistic expression of sport as well as everyday life. CSU

KNPR 175

Theory of Football

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Tactics and strategies applied to specific game situations incorporating evaluation of opponent's development of game plan including offense, defense, and the kicking game. CSU/UC

KNPR 195

Student Athlete Success

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Corequisite: Status as current SAC student athlete. Athletic Counselor approved abbreviated and/or comprehensive education plan.

Recommended Preparation: Athletic Counselor approved abbreviated and/or comprehensive education plan. Status as current SAC student athlete.

This course is designed to prepare Santa Ana College student athletes for balancing the roles of student and athlete as well as preparing them to transfer. Students learn essential information regarding athletic eligibility, interactions between their education plan and athletic goals, NCAA and NAIA transfer requirements, growth mindset in athletics, college success skills, and time management. CSU/UC

KNPR 196

Sport Psychology Applications - Baseball

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class provides advanced mental training to improve baseball performance. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for baseball competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self- assess readiness for transfer and the selection of transfer program. CSU

KNPR 198

Topics

Unit(s): 0.1-3.0 Class Hours: 2.0-54.0 Lecture total.

Specialized professional studies courses on topics related to the needs of Kinesiology students. (Pass/No Pass Only.) CSU

KNPR 200

Theory of Baseball

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Designed for the competitive baseball player. Topics to include offensive and defensive baseball strategies, bunting, baserunning, mental and physical preparation of becoming a baseball player. CSU/UC

KNPR 202

Introduction to Personal Training

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to introduce students to the fitness specialist career and prepare students for entry level personal trainer certification exams. Emphasis is placed on professional conduct, introduction of human movement science principles, and exercise program development for apparently healthy adults and children. CSU

KNPR 205

Techniques of Exercise Leadership

Unit(s): 1.0 Class Hours: 9.0 Lecture, 45.0 Lab total.

This course is designed to introduce and practice the principles and techniques involved in teaching group exercise and developing personal trainer/client relationships. Emphasis is placed on client assessment, communication skills, program design, exercise adherence, teaching strategies, and professional responsibility and liability. CSU

KNPR 217

Theory of Basketball

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course provides instruction for the competitive basketball player. Topics to include techniques and strategies of basketball, different types of defense and offensive patterns. Emphasis will be placed on the mental aspect of basketball, team play, biomechanics, and film study at a competitive level. CSU/UC

KNPR 218

Sport Psychology Applications - Basketball

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class provides advanced mental training to improve basketball performance. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for basketball competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self-assess readiness for transfer and the selection of transfer program. CSU

KNPR 275

Sport Psychology Applications-Football

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class provides advanced mental training to improve performance in football. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self-assess readiness for transfer and the selection of transfer program. CSU

KINESIOLOGY SPORTS MEDICINE (KNSM)

KNSM 101

Introduction to Sports Medicine

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to be an introduction to the field of sports medicine/athletic training. It

includes exposure to basic human anatomy and common athletic injuries as well as appropriate injury management strategies. CSU/UC

LAW (LAW)

LAW 058

Legal Interpreting and Translation Spanish/English

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in legal interpretation/translation designed for employment certification of interpreters for government and private legal businesses. Fluency in Spanish and English strongly recommended. Same as BA 058. Field trips may be required.

LAW 100 (C-ID LPPS 110)

Law and Society

Formerly: Introduction to Legal Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the legal system including the courts, participants and various sources of law in the American legal system. Review of the legal and judicial process in the United States covering the adversarial system, jurisdiction of federal and state courts, and the general process of judicial review. Explanation of different sources of law including statutes, court cases and administrative agency rules. Review of basic legal reasoning and introductory legal research methods. Examination of legal ethics. Introduction to substantive areas of law and the effect the law has in various groups and individuals in our system. CSU/UC

LAW 105 (C-ID BUS 120)

The Legal Environment of Business

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. (Same as Business 105). CSU/UC

LAW 110

Legal Terminology

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

The study of terminology used in a law office and the court system. CSU

LAW 121

Legal Ethical Reasoning

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, responsibility, as applied to the Legal Profession. The course will explore the application of the California Rules of Professional Conduct as applied to the legal profession and society in general. CSU

LAW 299

Cooperative Work Experience Education - Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, section 55253. (Pass/No Pass Only) CSU

LIBRARY AND INFORMATION STUDIES (LIBI)

LIBI 100

Library Research Fundamentals

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course is designed to teach students basic college-level research skills for effective use of traditional and electronic library resources. Instruction includes print and non-print information sources such as reference books, scholarly material, online subscription databases, and the Internet. CSU/UC

LIBI 103

Advanced Internet Research

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course focuses on library research strategies for effectively locating and evaluating information on the Internet. Central topics are formulating search strategies, understanding how to form search expressions, evaluating information, and citing resources. CSU

LIBRARY TECHNOLOGY (LIBR)

LIBR 053

Library Internship

Unit(s): 3.0 Class Hours: 18.0 Lecture, 120.0 Lab total.

Prerequisite: LIBR 101 and LIBR 110 and LIBR 122 with a minimum grade of C.

Closely supervised fieldwork experiences in two carefully selected library settings that will allow the student to apply learned knowledge and skills. Weekly review seminars and discussions are conducted in the classroom and online. To be taken in the last semester of an A.A. Degree or Certificate in Library Technology.

LIBR 054

Children's Library Services

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Course explores standard library procedures and practices as they are adapted to a children's library situation. Each student has practice evaluating materials and using various methods for sharing literature with children, e.g. reading aloud, story times, displays, and bibliographies.

LIBR 101

Introduction to Library Technology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an introduction to libraries as a career field with particular emphasis on the role of the library technician in various types of library settings. It also provides an overview of library collections, history, organization, staffing, services, terminology, and electronic online resources. CSU

LIBR 102

Information Sources for Paraprofessionals: Tools and Techniques

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to information sources in both print and electronic formats. Includes a basic theoretical and practical exploration of the nature and types of information in selected subject fields. Builds skills in information searching and in the evaluation of information and information sources. CSU/UC

LIBR 110

Technical Services

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of library technical services, exploring philosophies, ethics, policies, and procedures. Emphasis on materials acquisitions processes and workflows; cataloging and classification principles and rules (MARC, RDA, LC and Dewey Classification systems, and LC Subject Headings); metadata and its impact on user experience; collections preservation and maintenance; and the future of technical services. CSU

LIBR 122

Public Services

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of library public services with special emphasis placed on a variety of issues as they relate to the circulation of library materials, the delivery of reference services, the use of the Internet and full-text databases for reference, and the preparation and delivery of library programs. CSU

MANAGEMENT (MGMT)

MGMT 120

Principles of Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Principles, methods, and procedures essential to the successful management of human and financial resources. Planning, decision making, staffing, directing, motivating, leading, communicating, controlling, and the application of managerial skills (Same as Business 120). CSU

MGMT 121

Human Relations and Organizational Behavior

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The role of the manager and management's relationship to employees. Includes the application of motivational theories, communications, leadership, and organizational structure (Same as Business 121). CSU

MGMT 122

Business Communications

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of oral and written communication skills used in business; emphasizes guidelines for improving writing and speaking skills, common solutions to common communication problems, ethical issues facing business communicators today, instructions on how to identify areas of legal vulnerability, and tested techniques for communicating successfully in today's high-tech, international business environment. Suggested preparation: English 061 or English for Multi-lingual Students 112 or American College English 116. CSU

MGMT 125

Organizational Leadership

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the universal principles of leadership. Covers the many approaches to leadership, the role of gender and diversity, and leadership ethics. Designed to build repeatable and transferable leadership skills for today's organizational environment. CSU

MGMT 135

Human Resource Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course covers the goals, activities, and challenges of human resources. Includes equal employment opportunity and diversity, recruitment and selection, leadership and motivation, training and development, compensation, and employee and labor/management relations. CSU

MANUFACTURING TECHNOLOGY (MNFG)

MNFG 096

Manufacturing Technology Lab

Unit(s): 0.5-4.0 Class Hours: 27.0-216.0 Lab total.

Corequisite: MNFG 174 or MNFG 176 or MNFG 177 or MNFG 184 or MNFG 186 or MNFG 194

or MNFG 195.

A supplemental learning assistance course that provides supervised use of laboratory equipment for students enrolled in CNC machine courses to complete machine setup and operation projects. Students are expected to complete 24 lab hours for each .5 unit of credit. May be repeated up to the maximum number of units. Grade: Pass/No Pass only.

MNFG 103

Solidworks Beginning Solid Modeling

Formerly: Beginning Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling using Solidworks, an industry standard engineering design software (CAD). This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, fillet, chamfer, etc.), including the preparation of individual solid components and basic solid model assemblies (Same as Engineering 103). CSU

MNFG 104

Solidworks Intermediate Solid Modeling

Formerly: Solidworks Intermediate Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 103 or ENGR 103 with a minimum grade of C.

Intermediate course for solid modeling using Solidworks, an industry standard engineering design software (CAD). Includes a review of the introductory class and changes to the Solidworks interface. Instruction in the use of intermediate Solidworks part modeling skills such as assembly modeling and sub- assemblies is included (Same as Engineering 104). CSU

MNFG 105

Solidworks Advanced Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 104 or ENGR 104 with a minimum grade of C.

Advanced course for solid modeling includes a review of the intermediate class and changes to the Solidworks interface. Instruction in the use of Solidworks part modeling, assembly modeling, sub-assemblies, advanced photoworks, and advanced animator emphasized (Same as Engineering 105). CSU

MNFG 106

Solidworks Drawings

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 103 or ENGR 103 with a minimum grade of C.

Recommended Preparation: MNFG 111 or ENGR 111 with a minimum grade of C.

Creation and use of drawing templates, importing of solids data into the drawing template, and modification of the resulting drawings to company standards. CSU

MNFG 107

CSWA Exam Prep

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: MNFG 104 with a minimum grade of C.
The CSWA exam preparation class introduces students to the SolidWorks certification process, helps them prepare for the CSWA, using sample exams, and administers the Official SolidWorks CSWA exam. CSU

MNFG 111

Basic Mechanical Blueprint Reading

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Reading and interpreting blueprints for manufacturing technologies. (Same as Engineering 111). CSU

MNFG 114

Geometric Dimensioning and Tolerancing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Drawing interpretation utilizing geometric dimensioning and tolerancing per ASME Y14.5M (formerly ANSI Y14.5M) as applied in engineering, manufacturing, and inspection. Suggested preparation: prior course or experience in drafting with conventional dimensioning and tolerancing. (Same as Engineering 114) CSU

MNFG 115

QC1 Quality Inspection

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in Quality Control operations. Course includes dimensional inspection, completion of inspection reports, training and expectations for various quality inspector positions, as well as an introduction to various quality concepts that support inspection positions. CSU

MNFG 116

QC Operations with Verisurf Software

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: MNFG 111 with a minimum grade of C.

Introductory course in the operation of Verisurf inspection software. This course includes a review of Geometric Dimensioning and Tolerancing and operation of Verisurf software during inspection of three dimensional manufactured parts. This software is also used in creation of inspection reports as a form of data recording in a quality control environment. CSU

MNFG 117

QC Operations with PC-DMIS CMM-1

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 111 with a minimum grade of C.

Recommended Preparation: MNFG 114 with a minimum grade of C.

Introductory course in the operation of PC- DMIS CMM Software. This course instructs the user how to dimension, program, and inspect features of 3D parts. Course includes dimensional explanation of relevant GD&T concepts, importing and using of CAD models, and reporting results from each activity. CSU

MNFG 118

QC Operations with PC-DMIS CMM-2

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 117 with a minimum grade of C.

Recommended Preparation: MNFG 114 with a minimum grade of C.

Supplementary course in the operation of PC-DMIS CMM Software. This course instructs the user in additional dimensioning, programming, and system menu options. Course includes additional instruction in probe calibrations, dimensioning options, model translations, and scanning functionality. CSU

MNFG 119

QC2: Quality Theory

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 115 with a minimum grade of C.

Recommended Preparation: MNFG 114 with a minimum grade of C.

Intermediate course for quality control operations. Course discusses quality theory as well advanced quality operations such as, inspection planning, calibration systems, sampling, quality tools including SPC and their implementation, auditing, corrective and preventative action, lean manufacturing concepts, and customer and supplier relationships. CSU

MNFG 120

Introduction to Medical Device Quality

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

The course goal is to teach students an overview of quality system regulations and standard compliance used in the medical device industry. The course content will be applicable to the medical technology disciplines of manufacturing, engineering, welding, and biotechnology. This will be placed within a strategic context to generate discussion regarding the importance of quality management and to relate it to other business and organizational issues. CSU

MNFG 121

Quality Control for Medical Devices

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: MNFG 120 with a minimum grade of C.

The course goal is to teach students quality control elements to support the medical device industry. The course content will be applicable to the medical technology disciplines of manufacturing, engineering, welding, and biotechnology. Students will be taught the concepts and principles of quality control and gain knowledge of the relevant tools, models and techniques. The course provides "real world" applications and discussions of current and relevant topics of quality systems. CSU

MNFG 122

Introduction to Autonomous Control and Drones

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This course teaches students how to safely control a drone with hardware and software. Topics include basic autonomous control, coordinate systems, methods on control, flight techniques, manufacturing of drones, design of drones, modification of drones, Unmanned Autonomous Systems, and Counter Unmanned Autonomous Systems. CSU

MNFG 123

Payload and Sensors for the Manufacturing of Autonomous Drones

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course teaches students how to safely choose and use various payloads and sensors with autonomous drones. Topics include applications of payloads and sensors; use and troubleshooting of various sensors(light, ultrasonic, and GPS based); effects of payloads and sensors on autonomous drones; data gathering and processing; and latest technological advancements for autonomous drone sensor technology. CSU

MNFG 124

Repair and Troubleshooting of Autonomous Drones

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course teaches students how to troubleshoot and repair autonomous drone platforms. Course content includes familiarization of drone components, disassembly and reassembly of drone platforms, preventative maintenance, common diagnostics and repair procedures, and post repair flight testing. CSU

MNFG 128

Basic Metals Technology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Basic metals terminology and its application in modern industry. Involves metal classification systems, destructive metal testing, metal refining, and heat treatment of various metals with resulting strength and structural changes. CSU

MNFG 130A

CATIA Beginning Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling CAD using CATIA software. Topics include: CAD overview, sketching, basic solid model creation (base features, pads, pockets, grooves, shafts, etc.), sketch constraints, reference elements, hole features, feature editing, assembly and drawing creation (Same as Engineering 130A). CSU

MNFG 130B

CATIA Intermediate Solid Modeling

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: MNFG 130A with a minimum grade of C.

Intermediate course in parametric solid modeling CAD using CATIA software. Topics: intermediate/advanced level sketching and modeling (sweeps, ribs, slots), feature transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. (Same as Engineering 130B). CSU

MNFG 153

Technical Mathematics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Ratios and proportions, formulas, measurements (linear, surface, and volume), geometric construction, and right triangles. Basics of algebra, geometry, and trigonometry for the manufacturing industry. CSU

MNFG 156A

Beginning Robotic Welding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: WELD 108 with a minimum grade of C.

Corequisite: MNFG 157A or WELD 157A.

The course is a basic programming course that teaches students how to safely manipulate the robot through proper use of the robotic controller and teach pendant. This course also introduces the student to the gas metal and flux cored arc welding process. Emphasis is placed on safe operating practices, handling and storage of compressed gases, process principles, component identification, various welding techniques, and base and filler metal identification. This course is an introduction to the beginning robotic/laser technology. (Same as Welding 156A). CSU

MNFG 156B

Intermediate Robotic Welding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: MNFG 156A or WELD 156A and MNFG 157A or WELD 157A with a minimum grade of C.

Corequisite: MNFG 157B or WELD 157B.

The robotic welding course teaches students how to safely manipulate the robot through proper use of the robotic controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to input welding procedures, jog frames, circular moves, weaving, copy, delete, commands, six point tool center and other activities related to the robotic welding process. (Same as Welding156B). CSU

MNFG 156C

Advanced Robotic Welding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: MNFG 156B or WELD 156B with a minimum grade of C.
Corequisite: MNFG 157C or WELD 157C.

The Advanced Robotic Welding course teaches students how to safely manipulate the robot through proper use of the robot controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to create programs in robotic welding safety, TPP Management, USER Frames, coordinated motion, TAST,TAST-RPM, position registers & offsets, touch & sensing and activities relating to the robotic welding process. (Same as Welding 156C). CSU

MNFG 157A

Basic Robotic Programming

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: WELD 108 with a minimum grade of C.

Corequisite: MNFG 156A or WELD 156A.

This is a basic programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, linear movements, coordinate systems, Teach Pendant programming, and software/hardware integration. (Same as Welding 157A). CSU

MNFG 157B

Intermediate Robotic Programming

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: MNFG 156A or WELD 156A and MNFG 157A or WELD 157A with a minimum grade of C.

Corequisite: MNFG 156B or WELD 156B.

This course is a programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, circular movements, robot set-up, advanced Teach Pendant programming and functions, and auxiliary hardware. (Same as Welding 157B). CSU

MNFG 157C

Advanced Robotic Programming Welding

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: MNFG 156B or WELD 156B and MNFG 157B or WELD 157B with a minimum grade of C.

Corequisite: MNFG 156C or WELD 156C.

This is an advanced programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, logic commands, and coordinate systems, advanced Teach Pendant programming, network integration, simulations, and software/hardware integration. (Same as Welding 157C). CSU

MNFG 158

Basic Machining Concepts and Operations

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Fundamental operations on lathes, milling machines, grinders, and drill presses, including precision measurements and layout. Equips students with skills and theory necessary to enter or upgrade within the machinist trade. CSU

MNFG 159

Advanced Turning Concepts and Operations

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Prerequisite: MNFG 158 or MNFG 188 or ENGR 158 with a minimum grade of C.

Machine turning theory and skill development with emphasis on lathe principles, capabilities, and operations. Includes construction, tool grinding, and turning machine operations such as diameter turning and boring, external and internal single point treading. CSU

MNFG 168

Advanced Milling Concepts and Operations

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Prerequisite: MNFG 158 with a minimum grade of C.

Advanced machine tool operation and setup with emphasis on milling machine principles, use and capabilities, accessories, and operations. Includes operations with the offset boring head and rotary table. CSU

MNFG 169

Job Shop Skills

Unit(s): 0.5-3.0 Class Hours: 27.0-162.0 Lab total.

Prerequisite: MNFG 159 and MNFG 168 with a minimum grade of C.

Experience in planning, setup and machining of a wide variety of projects using all machine tools. Students will build upon the skills and theory gained in beginning and advanced Manufacturing Technology classes or by on- the-job experience. CSU

MNFG 171

CNC Program Writing

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Recommended Preparation: MNFG 158 and MNFG 111 with a minimum grade of C.

Introductory course for manual CNC program writing. This course will include coordinate system, absolute/incremental programming, circular interpolation, cutter radius compensation, canned cycles, and program formatting. CSU

MNFG 173

Mastercam - 2D Geometry, 2D Toolpaths

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Computer assisted numerical control programming of machine tools using Mastercam software. Creation of 2D-part geometry. 2D-part programming including contouring, pocketing, drilling, and tapping. CSU

MNFG 174

CNC Milling Center Set Up and Operation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 158 and MNFG 171 with a minimum grade of C.

Corequisite: MNFG 096.

Basic setup and operation of numerically controlled milling machines. Students will set up and operate a 3 axis CNC milling machine. Requires enrollment in 1.5 hours of scheduled lab for .5 unit. Labs are scheduled at the first class meeting. CSU

MNFG 175

Mastercam - 3D Geometry, 3D Surfaces

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 173 with a minimum grade of C.

Continued instruction of computer assisted numerical control programming. Advanced concepts and methods of creating 3D geometry and 3D surfaces using Mastercam 3D software. CSU

MNFG 176

CNC Turning Center Set Up and Operation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 158 and MNFG 171 with a minimum grade of C.

Corequisite: MNFG 096.

Setup and operation of numerically controlled lathe with emphasis on the application of the Fanuc controlled machine and CNC machining methods used in industry. Requires enrollment in 1.5 hours of scheduled lab for .5 unit. Labs are scheduled at the first class meeting. CSU

MNFG 177

Mastercam - 3D Toolpath and CAM Applications

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 175 with a minimum grade of C.

Advanced concepts in the manufacturing of machine parts using MASTERCAM software and CNC machining centers. Emphasis placed on programming and machining 3 dimensional surfaces. Problem solving in roughing, finishing, fixturing, and machining of a variety of part configurations. CSU

MNFG 178

Mastercam Lathe

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 171 and MNFG 173 with a minimum grade of C.

Computer assisted numerical control programming of machine tools using MASTERCAM lathe software. Emphasis placed on lathe toolpaths: facing, turning, grooving, boring, and threading. CSU

MNFG 184

Advanced CNC Mill Set Up and Operation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 171 and MNFG 174 with a minimum grade of C.

Corequisite: MNFG 096.

Advanced set-up and operation of CNC Machining Center. Student will learn the advanced concepts in set up and operation of the state-of-the-art milling equipment. Course curriculum will include instruction on boring cycles, reaming cycle, thread milling, 4th AXIS rotary table, and multiple fixture offsets. Requires enrollment in 1.5 hours of scheduled lab per week for .5 unit. Lab hours are scheduled at the first class meeting. CSU

MNFG 186

Advanced CNC Lathe Programming, Setup and Operation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 171 and MNFG 176 with a minimum grade of C.

Corequisite: MNFG 096.

Advanced programming, set-up, and operation of CNC lathe. Course curriculum will include instruction on C-Axis with live tooling option, subprogram for C-Axis, tapered I.D. and O.D. thread, canned cycles, uses of digital probe for tool offset, and programmable tailstock. Requires enrollment in 1.5 hours of scheduled lab per week for .5 unit. Lab hours are scheduled at the first class meeting. CSU

MNFG 188

Machine Technology Survey

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Machine tool set-up and operation for students who desire general knowledge of machine tools and processes. All the basic machine tools are used. Not intended for Manufacturing Technology majors. (Same as Engineering 188) CSU

MNFG 194

CNC Horizontal Mill Setup and Operation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 171 and MNFG 174 with a minimum grade of C.

Corequisite: MNFG 096.

Set-up and operation of CNC Horizontal Machining Center. Students will learn the concepts necessary for set-up and operation of the state-of-the-art horizontal milling machine. Course curriculum will include instruction on multi fixtures, rapid pallet changing, and ability to machine several sides at once with a single set-up using fully programmable 4th axis to boost productivity, cut lead times, and lower production costs. Corequisite enrollment required in MNFG 096. Student must complete 27 hours of scheduled lab per semester to earn .5 units for lab. CSU

MNFG 195

Mastercam 5 Axis Mill Toolpath and Application

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MNFG 174 and MNFG 175 with a minimum grade of C.

Students will use Mastercam Software and Blade Expert to create various Multi Axis Toolpaths. Course includes programming, setup and operation of a 5-Axis DMU-50 milling machine with Siemens CNC control to complete various student's group projects. CSU

MARKETING (MKTG)

MKTG 111

Principles of Retailing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the retail industry. Structure, scope, and evolution of retail institutions; retail decision making is emphasized in relation to the following topics: organization and store management; merchandise assortment, pricing, and layout; identifying markets; and advertising, promotion, and sales. CSU

MKTG 113

Principles of Marketing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The process of developing products that will satisfy the many needs of consumers and businesses. Includes market research techniques, pricing, distribution, and promotion. CSU

MKTG 116

Global Marketing: Selling Around the World

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to adapt marketing techniques to international markets, how to develop marketing strategies, and how to target markets based on the cultural, political and economic environments. Learn how to create forecasts and budgets for international markets. (Same as Business 116) CSU

MKTG 120

Understanding Consumer Behavior - Getting them to Buy, Buy, Buy

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will explore the science, mechanics, dynamics, and culture of consumers and their behavior. Understanding your consumer leads to long-term relationships, which translates to sales and profits for your business. Students will learn how to analyze consumer behavior using the latest tools, techniques, and technology. CSU

MKTG 121

Negotiating - Getting to a Win-Win

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn the techniques of successfully negotiating a Win-Win business transaction. By learning the different negotiating styles, students will gain skills working with customers in all business segments. CSU

MKTG 122

Sales Strategies that Build Business Relationships & Increase Sales

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how professional sales people build relationships with customers and clients that lead to increased sales. Learn how to effectively communicate, persuade, overcome objections, and close the deal. CSU

MKTG 123

Marketing and Technology - Trends and Cutting Edges

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will cover the latest trends in mixed marketing technologies. Learn to use the latest technologies to drive awareness, create demand, and close sales. Discover the latest trends, strategies, and tools for using technology for marketing - what they are, how they work, and how to get started. CSU

MKTG 124

Cause Marketing and Public Relations - Doing Well by Doing Good

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will cover how companies can be successful by doing good, helping society and people. Learn about not-for-profit businesses and socially responsible for-profit businesses. Learn how authentic corporate giving, cause marketing, and the power of public relations can help drive the triple bottom line-profits, people and planet. CSU

MKTG 125

Advertising & Promotion – Get the Word Out & Keep your Customers Buying

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will provide students with an in-depth look into cutting-edge advertising and promotion strategies used by small, medium, and large companies. Students will learn how to create an advertising campaign, including the planning, costs, and creative design process. Students will learn how promotions are used to increase sales, to build brand loyalty, and to build relationship with customers. CSU

MKTG 126

Distributing Products & Services – Reaching Customers Where They Shop

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will teach the latest and most cost-effective strategies to reach your customer. Students will learn how an efficient B2B and/or B2C distribution system utilizing marketing intermediaries, direct sales, online distribution, and global markets can increase profits. Supply Chain strategies, channel evaluation, and relationships will be highlighted. CSU

MKTG 127

Introduction to E-Commerce

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Electronic commerce from a managerial perspective focusing on the retailing, business- to-business, and service industries. Topics include e-commerce infrastructure, intranets and extranets, electronic payment systems, marketing research, advertising, e-commerce strategies, and privacy issues (Same as Business 127). CSU

MATHEMATICS (MATH)

MATH N06

Essential Mathematics

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: A student will be placed in Math N06 if they do not qualify for Math N48 or a higher course according to the Santa Ana College Math Department's placement standards.

Reviews whole numbers, fractions, decimals, percent, geometric formulas and signed numbers. Not applicable to associate degree.

MATH N48

Pre-Algebra/Algebra Basics

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

For students who have little or no previous algebra experience. This course offers an introduction to basic algebra concepts, math vocabulary, and algebraic operations. This course is intended to be a bridge from basic arithmetic to elementary algebra. Not applicable to associate degree.

MATH 019

Support for Math 219 Probability and Statistics

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Corequisite: MATH 219.

A review of mathematics needed to be successful in Probability and Statistics. Topics are drawn from Pre-Algebra and Algebra. Intended to be taken concurrently with Math 219 for students who did not directly place into Math 219 or for students who would like to supplement their learning with prerequisite skills.

MATH 030

Coping with Math Anxiety

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Covers the concept of math anxiety - what causes it and how to overcome it. Includes review and practice of basic math skills.

MATH 040

Support for College Algebra

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Corequisite: MATH 140.

A review of mathematics topics from Elementary and Intermediate Algebra which are needed to be successful in College Algebra. Intended to be taken concurrently with College Algebra (Math 140) for students who did not directly place into Math 140, or for students who would like to supplement their learning with prerequisite skills.

MATH 083

Beginning and Intermediate Algebra for Liberal Arts and Social Science

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

A combined course in algebra that includes systems of equations, inequalities, graphs and functions, radicals, quadratic polynomials, rational expressions, exponential and logarithmic functions, and problem solving aimed specifically at liberal arts and social science majors.

MATH 084

Beginning and Intermediate Algebra

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

A combined course in algebra that includes systems of equations: inequalities, graphs and functions; radicals, quadratic polynomials, rational expressions; exponential and logarithmic functions, and problem solving.

MATH 105

Mathematics for Liberal Arts Students

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MATH 083 or MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 105 according to the Santa Ana College Math Department's placement standards.

An overview of mathematics for the liberal arts student. Topics will include problem solving, financial management, probability, statistics, and selected other topics such as set of theory, geometry, logic, mathematical modeling, and the history of mathematics. CSU/UC

MATH 140

College Algebra

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 140 according to the Santa Ana College Math Department's placement standards.

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationales, exponentials, and logarithms with applications and graphing; sequences and series. CSU/UC

MATH 141 (NOTE: Only 4 of 4.5 units are UC transferable)

College Algebra with Support

Unit(s): 4.5 Class Hours: 72.0 Lecture, 36.0 Lab total.

Prerequisite: MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 140 according to the Santa Ana College Math Department's placement standards.

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationales, exponentials, and logarithms with applications and graphing; sequences and series. Course includes just-in- time review of topics from arithmetic, Elementary Algebra, Intermediate Algebra, and/or other topics as necessary. Intended for students who did not directly place into Math 140 or for students who would like to supplement their learning with prerequisite skills needed for College Algebra. CSU/UC

MATH 145 (C-ID MATH 130)

Finite Mathematics

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 145 according to the Santa Ana College Math Department's placement standards.

Linear systems and matrix algebra, linear programming and the simplex method, algebra of sets, introduction to probability and counting, the binomial distribution, descriptive statistics, introduction to the normal curve.

Application to the fields of business, economics, and biological and behavioral sciences are emphasized. CSU/UC

MATH 150 (C-ID MATH 140)

Calculus for Biological, Management and Social Sciences

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: MATH 140 OR Math 145 with a minimum grade of C OR placement into Math 150 according to the Santa Ana College Math Department's placement standards. MATH 140.

Single and multi-variable calculus including limits, derivatives, integrals, exponentials, and logarithmic functions and partial derivatives. Applications are drawn from biology, social science, and business. CSU/UC

MATH 162 (C-ID MATH 851)

Trigonometry

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 140 with a minimum grade of C OR equivalent skills as measured by placement into Math 162 according to the Santa Ana College Math Department's placement standards.

Angles and their measurement, trigonometry functions and their applications, including vector problems. Use of trigonometric identities. Graphing the basic functions and variations, solving trigonometric equations. Graphing using polar coordinates, and use of complex numbers. CSU

MATH 170 (C-ID MATH 155)

Pre-Calculus Mathematics

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 162 with a minimum grade of C OR equivalent skills as measured by the Math Level 4 Exam and a course equivalent to Mathematics 160.

Advanced algebraic topics. Study of rational, trigonometric, exponential and logarithmic functions, and analytic geometry. Preparation for Mathematics 180. CSU/UC

MATH 180 (C-ID MATH 210, C-ID MATH 900S = MATH 180 or 180H + MATH 185)

Single Variable Calculus I

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 140, MATH 162 OR MATH 170 with a minimum grade of C OR equivalent skills as measured by placement into Math 180 according to the Santa Ana College Math Department's placement standards.

Limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental functions. Applications including extrema tests, related rates, and areas. CSU/UC

MATH 180H (C-ID MATH 210 C-ID MATH 900S = MATH 180 or 180H + MATH 185))

Honors Single Variable Calculus I

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND Mathematics 170 with a minimum grade of C or better or equivalent skills as measured by the Mathematics Level 4 Exam and a course equivalent to Mathematics 170.

An in-depth study of limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental function with the emphasis on theory and challenging problems. Applications include extrema tests, related rates and areas, volumes, arc length, and surface areas. CSU/UC

MATH 185 (C-ID MATH 220, C-ID MATH 900S= MATH 180 OR 180H + MATH 185)

Single Variable Calculus II

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 180 or MATH 180H with a minimum grade of C.

Applications of integrals, including volumes, work, arc length, and surface area. Integration techniques, differential equations, conics, parametric equations, polar coordinates, improper integrals, sequences, and infinite series. CSU/UC

MATH 204 (C-ID MATH 120)

Mathematical Concepts for Elementary School Teachers

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 083 or MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 204 according to the Santa Ana College Math Department's placement standards.

Designed for prospective elementary teachers, the course emphasizes problem solving techniques and mathematical structure associated with numeration, set theory, elementary number theory, real number system, ratio, proportion, and percent. The course includes instructional delivery design and activity-based explorations. CSU/UC

MATH 204L

Mathematics Content for Elementary Math Teachers (Lab)

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Corequisite: MATH 204.

Students in Math 204L will receive individual and/or group instruction advancing students conceptual understanding of the mathematics needed to teach elementary school. Instruction integrates hand-ons learning, projects, and presentations. (Pass/No Pass Only) CSU

MATH 219 (C-ID SOCI 125, C-ID MATH 110)

Statistics and Probability

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 083 OR MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 219 according to the Santa Ana College Math Department's placement standards.

Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology. CSU/UC

MATH 219H (C-ID SOCI 125, C-ID MATH 110)

Honors Statistics and Probability

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND MATH 083 or MATH 084 with a minimum grade of C or equivalent skills as measured by placement into Math 219 according to the Santa Ana College Math Department's placement standards.

Enhanced format for the beginning course in statistics and probability, using a seminar approach and computers and individual research, and presentations. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics, with applications designed around the individual interests of students. CSU/UC

MATH 221 (C-ID MATH 110)

Statistics and Probability with Support

Unit(s): 4.5 Class Hours: 72.0 Lecture, 36.0 Lab total.

Prerequisite: MATH 083 or MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 221 according to the Santa Ana College Math Department's placement standards.

Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology. Integrated review includes concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and critical thinking skills from descriptive statistics that are needed to understand the basics of college-level statistics. Intended for students who did not directly place into Math 219 or for students that would like to supplement their learning with prerequisite skills needed for Statistics. CSU/UC

MATH 280 (C-ID MATH 230)

Intermediate Calculus

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 185 with a minimum grade of C.

Vectors and three-dimensional space, functions of several variables, partial derivatives, and multiple integrals. Vector calculus, Green's Theorem, Stoke's Theorem, and the Divergence Theorem. CSU/UC

MATH 287 (C-ID MATH 910S)

Introduction to Linear Algebra and Differential Equations

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: MATH 280 with a minimum grade of C.

Topics include matrices, determinants, vector spaces, linear systems of equations, linear product spaces, first and second order differential equations, systems of differential equations, and the Laplace transform. CSU/UC

MATH 319

Quantitative Research Methods for Healthcare Professionals

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 219 or MATH 219H or PSYC 210 with a minimum grade of C. Limitation on enrollment: Student must be admitted to the Occupational Studies program
This course will develop skills and tools for understanding and performing quantitative research in healthcare sciences. The focus of the course will be on statistical research methods prevalent in healthcare sciences: including principles of experimental design, appropriate sampling, and running quantitative tests to determine the validity of claims.

MEDICAL ASSISTANT (MA)

MA 001

Cooperative Work Experience Education - Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

Prerequisite: MA 051A, MA 051B, MA 053 and MA 055 with minimum grade of C.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become production employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253.

MA 020

Bloodborne and Airborne Pathogen Standards

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Presentation of California Occupational Safety and Health Act (Cal-OSHA) Bloodborne and Airborne Pathogen Standards for occupational at-risk exposure to hepatitis, HIV-AIDS, and Tuberculosis including compliance requirements, exposure control measures, exposure determination, protective equipment, and post exposure practices.

MA 030

Phlebotomy

Unit(s): 1.0 Class Hours: 13.5 Lecture, 13.5 Lab total.

This phlebotomy course is designed for health care workers and provides a comprehensive introduction to the practice of phlebotomy, with focus on safety procedures, equipment and point-of-care testing.

MA 051A

Beginning Medical Terminology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to medical terms including structural analysis of prefixes, combining form/roots, and suffixes. Emphasis on terms related to anatomy, physiology, diagnostic tests and pathology of the digestive, renal-urinary, and reproductive systems. Also, terms related to pregnancy and the newborn.

MA 051B

Advanced Medical Terminology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MA 051A with a minimum grade of C.

Continuation of MA 051A. Includes medical terms related to anatomy, physiology, diagnostic tests and pathology of the nervous, cardiovascular, respiratory, circulatory, musculoskeletal, skin, sensory, and the endocrine systems.

MA 053

Medical Assistant - Administrative Front Office

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Medical front office training including the role, responsibilities, professionalism, medical ethics and laws, medical records, filing, billing and collection, banking, bookkeeping, reception, telephone techniques, oral and written communication, resume, and job seeking skills. Also includes a unit on office first aid and life threatening illnesses.

MA 054

Medical Insurance and Billing Forms

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MA 051A with a minimum grade of C.

Instruction in the rules, regulations, and completion of medical insurance forms for Medicare, Medi-Cal, Tricare, MediMedi, State Disability, Worker's Compensation, and private commercial insurance carriers. Includes legal and ethical guidelines, and instruction in procedure coding using current procedural terminology and ICD-10-CM.

MA 055

Medical Assistant - Clinical Back Office

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Medical back office with emphasis on asepsis, sterilization, gloving and ungloving, assisting physician with exams and minor office surgical procedures, vital signs, vision testing, wound care, dressings, bandaging, specimen collections, medications, dosage calculations and injection techniques.

MA 056

Computer Applications for the Medical Office

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MA 051A and MA 053 with a minimum grade.

An introduction to the computer with practical applications for a medical office/clinical setting, including building patient databases, patient scheduling, procedure codes, and diagnostic codes. Generate computerized billing records, posting to accounts, insurance claims forms, generating reports, electronic data interchange and electronic medical records.

MA 098-00

Topic Course

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Medical Assisting.

MUSIC (MUS)

MUS 009A

Music Laboratory

Unit(s): 0.3 Class Hours: 18.0 Lab total.

Prerequisite: concurrent enrollment in a music course.

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. Beginning level assignments are geared toward attainment of skills relating to the corequisite music class. Accumulation of 16 hours earns 0.3 unit.

MUS 009B

Music laboratory II

Unit(s): 0.3 Class Hours: 18.0 Lab total.

Prerequisite: MUS 009A with a minimum grade of C AND concurrent enrollment in a music class.

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. More advanced beginning level assignments are geared toward attainment of skills relating to the corequisite music class.

Accumulation of 16 hours earns 0.3 unit.

MUS 009C

Music Laboratory III

Unit(s): 0.3 Class Hours: 18.0 Lab total.

Prerequisite: MUS 009B with a minimum grade of C and concurrent enrollment in a music class.

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. Intermediate level assignments are geared toward attainment of skills relating to the corequisite music class. Accumulation of 16 hours earns 0.3 unit.

MUS 009D

Music Laboratory IV

Unit(s): 0.3 Class Hours: 18.0 Lab total.

Prerequisite: MUS 009C with a minimum grade of C and concurrent enrollment in a music class.

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. Advanced level assignments are geared toward attainment of skills relating to the corequisite music class. Accumulation of 16 hours earns 0.3 unit.

MUS 101 (C-ID MUS 100)

Music Appreciation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Designed to increase awareness and appreciation of music from the European classical tradition in relation to general culture and history. Develops basic understanding of musical elements and deepens student's experience of music. Recommended for non- music majors. CSU/UC

MUS 101H (C-ID MUS 100)

Honors Music Appreciation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched approach designed for honors students. The European classical music tradition through study of musical elements, stylistic features, culture, and history.

Readings, guided listening assignments, required concert attendance, and special projects. Recommended for non-music majors. CSU/UC

MUS 102

World Music

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Music from the Far East, Southeast Asia, Africa, the Middle East, Europe and the Americas. Students are guided to enjoy and to understand music from diverse cultures. Investigation of the interconnections of culture, aesthetics, and musical styles. Concert attendance and assigned listening required. CSU/UC

MUS 102H

Honors World Music

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched, in-depth study of music from Asia, Africa, the Middle East, Europe, and the Americas. Seminar-style critical investigation of the interconnections of style, culture, and aesthetics to promote enjoyment and understanding of world music. CSU/UC

MUS 103

Jazz in America

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A historical survey of the development and evolution of jazz in America from its earliest roots in African and European music. The study will also include the social and economic conditions which influenced this art form. CSU/ UC

MUS 104

Rock Music History and Appreciation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Historical survey of rock music from its beginnings in the 50's to the present. Major rock and pop styles will be discussed. Personalities and musical styles will be related to the social, political, and cultural context of the time. CSU/UC

MUS 105

Film Music Appreciation

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the history and development of film music in the twentieth and twenty-first century. Students are guided through a critical examination of a variety of music soundtracks by prominent composers and will explore how the music reflects changes in our society and culture. CSU/UC

MUS 109

Reading and Making Music

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to music reading. Practical experience in learning how to perform melodies, rhythms, and simple chords from a written score. Recommended for beginning instrumental and voice students and those preparing for music theory. CSU/UC

MUS 110 (C-ID MUS 110)

Music Fundamentals and Culture

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the notation and primary elements of tonal music throughout history from Western and other global cultures. Examples from music literature will demonstrate staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. History and social context of these concepts will be discussed. Development of skills in handwritten notation is expected. CSU/UC

MUS 111 (C-ID MUS 120, C-ID MUS 125)

Basic Music Theory and Musicianship I

Unit(s): 4.0 Class Hours: 72.0 Lecture, 18.0 Lab total.

Introductory level course in music theory and its applications in traditional and modern musical practice. Includes detailed study of rhythm, notation, scales, intervals, chords, diatonic harmony, and voice leading as well as sight singing and other musicianship skills. Ability to read music in at least one clef recommended. Required of music majors; open to non-majors. CSU/UC

MUS 112 (C-ID MUS 130, C-ID MUS 135)

Music Theory and Musicianship II

Unit(s): 4.0 Class Hours: 72.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 111 with a minimum grade of C.

Continued study of harmony and ear training. Includes writing phrases and cadences, non- harmonic tones, harmonization, voice leading, melodic construction, figured bass, chord progression, and keyboard harmony. Required for music majors; open to non-majors. CSU/UC

MUS 113A

Basic Musicianship Skills

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Ear training and in-class sight-singing preparation for students not ready for Music 114A. Arranged hours in Music Lab for computer programs and ear training computer programs. Basic knowledge of scales, intervals, and major key signatures recommended. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. (Pass/No Pass Only) CSU/UC

MUS 113B

Musicianship Skills

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 113A with a minimum grade of C.

Continued ear training and in-class sight- singing preparation for students not ready for Music 114A. Arranged hours in Music Lab for computer programs and ear training programs. Basic knowledge of scales and intervals recommended. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. (Pass/No Pass Only) CSU/UC

MUS 114A (C-ID MUS 145)

Musicianship

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: MUS 112 with a minimum grade of C.

Competency-based sight-singing, rhythm, ear training, and dictation (melodic/harmonic) for performers and transferring music majors. Ear training software in the Music Lab is used for aural exercises. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. CSU/UC

MUS 114B (C-ID MUS 155)

Musicianship

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: MUS 114A with a minimum grade of C.

Competency-based sight-singing, rhythm, ear training, and dictation (melodic/harmonic) for performers and transferring music majors. Ear Training software in the Music Lab is used for aural exercises. B semester uses more advanced materials. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. CSU/UC

MUS 115A (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.5 Class Hours: 92.0 Lab total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar. Five hours on- campus practice per week and attendance at weekly recital required. B, C, and D semesters require study of more advanced repertoire. No more than a total of 4 semesters of credit may be earned in a combination of Music 115ABCD and 215. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

MUS 115B (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.5 Class Hours: 92.0 Lab total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar, covering more advanced repertoire than Music 115A. Five hours on-campus practice per week and attendance at weekly recital required. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

MUS 115C (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.5 Class Hours: 92.0 Lab total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar, covering more advanced repertoire than Music 115B. Five hours on-campus practice per week and attendance at weekly recital required. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

MUS 115D (C-ID MUS 160)

Applied Music (Private Instruction)

Unit(s): 1.5 Class Hours: 92.0 Lab total.

Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar, covering more advanced repertoire than Music 115C. Five hours on-campus practice per week and attendance at weekly recital required. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

MUS 121

Beginning Voice

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Group instruction designed to develop basic principles of solo and choral voice production, diction, breath control, and posture. Practice outside of class required. Recommended for non-music majors and for music majors not studying privately. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

MUS 122

Intermediate Voice

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 121 with a minimum grade of C.

Group instruction designed to develop intermediate principles of solo and choral voice production, diction, breath control, and posture. Vocal analysis of each student emphasized. Practice outside of class required. Song literature matched to student level. Designed for both music majors and non-music majors. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

MUS 123

Advanced Voice

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 122 with a minimum grade of C.

Group instruction designed to present advanced vocal exercises for solo and choral vocal production. Instruction includes song literature in English and several foreign languages. Practice outside of class required. Designed for both music majors and non-music majors. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

MUS 124

Advanced Vocal Production and Repertoire

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 123 with a minimum grade of C.

Continuation of group instruction for students who have completed three semesters of voice and can perform at an advanced level. Further develops advanced vocal and choral production through a variety of vocalize styles and techniques. Instruction includes advanced English and foreign language song literature. Practice outside of class required. Designed for both music majors and non-music majors. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

MUS 135 (C-ID MUS 180)

Concert Chorale

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Prerequisite: Audition.

Rehearsal and performance of standard and current choral repertoire. Designed to train students in mixed ensemble singing. Public performance emphasized. Each semester requires performance of a variety of new and different repertoire. Designed for students who have basic singing skills. May be repeated. CSU/UC

MUS 136

Collegiate Choir

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Mixed chorus which rehearses and performs a variety of music, including classical, folk tunes, and songs from Broadway musicals. Each semester requires performance of new repertoire. May be repeated. CSU/UC

MUS 137 (C-ID MUS 180)

Chamber Choir

Unit(s): 1.0 Class Hours: 72.0 Lab total.

Prerequisite: Audition.

Rehearsal and performance of chamber choir repertoire from various historical periods. Course designed for festival and concert performance. Each semester requires the performance of new repertoire. May be repeated. CSU/UC

MUS 140

Instrumental Methods for Winds and Percussion

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Instrumental instruction on woodwinds, brass, or percussion in an ensemble setting at the beginning and intermediate levels. Fundamental skills developed through rehearsal and in-class performance of technical exercises and beginning band repertoire. CSU/UC

MUS 141

Instrumental Ensembles

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Study, rehearsal, and performance of music for small commercial instrumental groups. Music literature will differ each semester. Previous instrumental performance experience recommended. May be repeated. CSU/UC

MUS 142

Creating Music on the Digital Audio Workstation

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Basic techniques in creating music with computer assisted technology, including the production of software instrument tracks, drum track programming, audio recording, editing, mixdown, and use of the software sampler. Students learn practical applications through creation of musical projects. CSU

MUS 143

Intermediate Techniques on the Digital Audio Workstation

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 142 with a minimum grade of C.

Intermediate techniques in creating music with computer assisted technology including digital sound manipulation, time and pitch editing, virtual mixing, auxiliary tracks, MIDI effects, and use of the software sampler. Students learn practical applications and electronic composition through creation of musical projects. CSU

MUS 144

Projects in Electronic Music

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 143 or MUS 147 with a minimum grade of C.

Exploration of digital recording and MIDI concepts for commercial applications. Individual projects will improve and extend students' skills in the areas of composition, sequencing, and recording. Assignments will help prepare students for Level 1 certification in Logic. CSU

MUS 145

Jazz Improvisation and Performance Workshop

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Performance and analysis of jazz standards and popular pieces in a practical workshop setting. Elements of improvisation and ensemble playing are stressed. Assumes a rudimentary understanding of chords and scales. Open to all instrumentalists and vocalists. CSU/UC

MUS 146

Digital Recording Studio Techniques I

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Introductory class in computer-based hard disk recording. Emphasis on digital sound manipulation, editing, mixdown, and microphone techniques. CSU

MUS 147

Digital Recording Studio Sound Design

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Techniques of sound design in the digital recording studio including creation of sampler instruments, classic analog synthesizer programming, and other techniques of original sound creation using digital audio manipulation. Some prior experience on a digital audio workstation recommended. CSU

MUS 148

Music Scoring for Film and Multimedia

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Techniques of scoring music, audio, and sound effects to video and multimedia. Compositional elements of scoring to picture as well as technical elements of creating digital audio tracks are covered. Experience with digital recording and/or working with a digital audio workstation is necessary. CSU/UC

MUS 149

The Business of Music

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to the business and legal aspects of the music industry. This course covers current trends and issues for performing and recording careers in music. Topics include copyright, royalties, recording contracts, performing rights organizations, publishing, and publicity. CSU

MUS 152

Beginning Audio Production

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Introduction to the theory and practice of audio production for radio, stage, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software. (same as Digital Media 152) CSU/UC

MUS 153

Introduction to Game Audio

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Introduction to the techniques and implementation of audio production in game design including the incorporation of music, dialog and sound effects. Recording, editing, digital effect application, looping, layering, and mixing for an interactive game environment are covered. CSU

MUS 161

Class Piano I

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Group instruction for beginners emphasizing note reading, basic keyboard skills, chord patterns and sight reading. Practice outside of class required. Practice pianos available on campus. Required for music majors whose principal instrument is not piano. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

MUS 162

Class Piano II

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 161 with a minimum grade of C.

Group instruction for those possessing basic piano skills, but still classified as beginners. Emphasizes note reading, keyboard technique, chord patterns, and sight-reading. Daily practice required. Practice pianos available on campus. Required for music majors whose principal instrument is not piano. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

MUS 163

Class Piano III

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 162 with a minimum grade of C.

Instruction for students who have completed two semesters of piano and are ready for the intermediate level. Emphasizes building technique, sight reading, and performance. Daily practice required. Practice pianos available on campus. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

MUS 164A

Intermediate Piano Repertoire I

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 163 with a minimum grade of C.

Instruction for intermediate level students. Emphasizes solo material, technique, sight reading, interpretation, and performance. Daily practice required. Practice pianos available on campus. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

MUS 164B

Intermediate Piano Repertoire II

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 164A with a minimum grade of C.

Continuation of instruction for advanced intermediate level students. Emphasizes solo material, technique, sight reading, and performance. Daily practice required. Practice pianos available on campus. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

MUS 168

Stylistic Interpretation of Piano Repertoire

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 163 with a minimum grade of C.

Style characteristics of Baroque, Classical, Romantic and 20th century music studied through representative piano compositions. Students learn to play expressively within currently accepted performance practices for each period. Not for beginners. A combination of MUS 168 and MUS 268 may be taken a maximum of four enrollments. CSU/UC

MUS 169

Harmonization at the Keyboard

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Recommended Preparation: MUS 161 with a minimum grade of C or similar beginning experience playing the piano.

Beginning keyboard harmonization skills. Includes playing by ear and learning accompaniment patterns in several styles from simple chord progressions. A combination of MUS 169 and MUS 269 may be taken a maximum of four enrollments. CSU/UC

MUS 171 (C-ID MUS 180)

Concert Band

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Study and rehearsal of band music for concert performances on campus and in the community. Each semester requires performance of new and different repertoire. Designed for students with basic performance skills. May be repeated. CSU/UC

MUS 173

Beginning Rhythms in Percussion and Drums

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

The introduction of snare drum and drum set in a class situation. Designed to teach the basics of percussion and drum set performance for the beginning student. Emphasis on rhythmic reading, rudimental techniques, and basic drum set coordination various styles. CSU/UC

MUS 175 (C-ID MUS 180)

Jazz Ensemble

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Study, rehearsal, and performance of contemporary jazz/rock music for the jazz ensemble with help in developing techniques of improvisation. Each semester requires performance of new and different jazz repertoire. Designed for students with basic performance skills. May be repeated. CSU/UC

MUS 176

Jazz Band

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Advanced study, rehearsal, and performance of standard and contemporary jazz literature. Includes advanced techniques in improvisation. Each semester requires performance of new and different repertoire. Designed for students with basic performance skills. May be repeated. CSU/UC

MUS 178

Mariachi

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Mixed ensemble for the study, rehearsal, and performance of Mariachi repertoire with an emphasis on the music from Jalisco. Each semester requires the performance of different repertoire. Designed for students who have basic performance skills. May be repeated. CSU/UC

MUS 180A

String Methods

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Beginning instruction on violin, viola, cello, or string bass. Fundamental skills developed through in-class rehearsal and performance of technical exercises and beginning orchestral repertoire. A combination of MUS 180A and MUS 180B may be taken a maximum of four enrollments. CSU/UC

MUS 180B

Intermediate String Methods

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 180A with a minimum grade of C.

Intermediate instruction on violin, viola, cello, or string bass. Skills developed through in- class rehearsal and performance of intermediate technical exercises and orchestral repertoire. A combination of MUS 180A and MUS 180B may be taken a maximum of four enrollments. CSU/UC

MUS 181 (C-ID MUS 180)

Chamber Orchestra

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Rehearsal and performance of standard repertoire for chamber orchestra. Each semester requires the performance of a variety of different repertoire. Designed for students who have basic performance skills. CSU/UC

MUS 185

Beginning Classical Guitar

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Guitar playing techniques of right hand and left hand fingers. Development of correct finger usage. Basic instruction in reading staff notation and relating staff notation to practical playing of solo and ensemble repertoire. Student must furnish nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

MUS 186

Intermediate Classical Guitar

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 185 with a minimum grade of C.

Instruction at the intermediate level in solo, duo, and trio repertoire. Emphasizes technique studies and performance styles of 18th century music. Student must provide nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

MUS 187

Advanced Classical Guitar

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 186 with a minimum grade of C.

Instruction at the advanced level in solo, duo, and trio repertoire. Emphasizes advanced technical studies and etudes and performance styles of 16th through 20th century music.

Student must provide nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

MUS 188

Advanced Classical Guitar Technique and Repertoire

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 187 with a minimum grade of C.

Study of advanced guitar technique, solo literature, and performance practices of Renaissance, Baroque, and Classical styles through 20th century music. Student must provide nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

MUS 189

Guitar Ensemble

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Rehearsal and performance of standard and current repertoire for guitar ensemble. Each semester requires the performance of a variety of different repertoire. Designed for students who can read notes in first position. May be repeated. CSU/UC

MUS 190

Introduction to ProTools

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Fundamental features and applications of ProTools audio software used in post- production for television, film and music. Orientation to functions, user interface and actual operation of digital audio workstation. Techniques and aesthetics associated with creation of well-mixed soundtracks are addressed. Hands-on practice with digital recording and editing of soundtracks. CSU

MUS 198

Topics

Unit(s): 0.5

Topics of special interest offered to meet the interests and needs of students of music. CSU

MUS 213 (C-ID MUS 140)

Theory 3

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MUS 112 with a minimum grade of C.

Continuation of diatonic harmony from Music 112. Chromatic harmony introduced. Includes non-dominant seventh chords, secondary dominants, modulation, and altered chords. Keyboard harmony. Concurrent enrollment in Music 114A recommended. Required for music majors; open to non-majors. CSU/UC

MUS 214 (C-ID MUS 150)

Theory 4

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MUS 213 with a minimum grade of C.

Continuation of Music 213. Late 19th century harmonic technique, and important aspects of 20th century style. Analysis and writing of short, derivative compositions. Keyboard harmony. Concurrent enrollment in Music 114B recommended. Required for music majors; open to non-majors. CSU/UC

MUS 215A

Applied Music (Advanced Private Instruction)

Unit(s): 1.5 Class Hours: 92.0 Lab total.

Prerequisite: MUS 115D with a minimum grade of C and audition and concurrent enrollment in a music ensemble or music theory course.

Advanced lessons in classical music in voice, piano, band/orchestral instrument, or guitar. Weekly requirements include five hours on- campus practice per week, weekly lessons, and weekly recital attendance. A combination of MUS 215A and MUS 115C and MUS 115A and MUS 115D and MUS 115B may be taken a maximum of four enrollments. CSU/UC

MUS 216

Advanced Harmony and Composition I

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MUS 214 with a minimum grade of C.

Extension of harmonic studies of Music 213 and 214 into complete small compositions. Emphasizes learning to write effectively for the piano. Introduction to simple contrapuntal techniques and how to combine words with music. CSU/UC

MUS 217

Advanced Harmony and Composition II

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: MUS 214 with a minimum grade of C.

Extension of Music 213 and Music 214 harmonic studies into complete small compositions. Emphasizes development technique. Explores highly chromatic harmony, dissonance, and selected 20th century styles. CSU/UC

MUS 218

Music Notation Using Finale Software

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Computer notation skills using Finale software. Covers various methods for inputting musical elements as well as editing, layout techniques, and score preparation. Intended for music students, music teachers, amateurs, and professionals. CSU

MUS 241

Chamber Music Ensemble

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Rehearsal and performance of music of various periods and styles for small instrumental, vocal, or combined ensembles. Each semester requires performance of new repertoire. Designed for students with previous performance experience. Audition required. May be repeated. CSU/UC

MUS 245

Intermediate Jazz Improvisation and Performance Workshop

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 145 with a minimum grade of C.

Performance and analysis of jazz standards and popular pieces in a practical workshop setting at an intermediate level. Elements of improvisation and ensemble playing are stressed. Open to all instrumentalists and vocalists. CSU/UC

MUS 268

Intermediate Keyboard Repertoire

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 168 with a minimum grade of C.

Style characteristics of Baroque, Classical, Romantic, and 20th century music studied through intermediate level piano compositions. Students learn to play expressively within currently accepted performance practices for each period. A combination of Music 168 and MUS 268 may be taken a maximum of four enrollments. CSU/UC

MUS 269

Intermediate Harmonization at the Keyboard

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Prerequisite: MUS 169 with a minimum grade of C.

Intermediate keyboard harmonization skills. Includes playing by ear and learning accompaniment patterns in jazz, popular and classical styles using a variety of chord progressions. A combination of MUS 169 and MUS 269 may be taken a maximum of four enrollments. CSU/UC

MUS 271 (C-ID MUS 180)

Symphonic Band

Unit(s): 1.0 Class Hours: 54.0 Lab total.

The rehearsal and performance of band music. Preparation of standard band repertoire for performances in the community. Each semester requires performance of a variety of new and different repertoire. Designed for students with intermediate or advanced performance skills. CSU/UC

NURSING - CONTINUING EDUCATION (NCE)

NCE 145

Advanced Cardiac Life Support

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Prerequisite: NRN 201 and NRN 201L with a minimum grade of C.

Examines principles of caring for patients experiencing cardiopulmonary emergencies. Includes arrhythmia recognition, psychomotor skills, and medications used to manage cardiac arrest. Current BLS card and fee required. Must contact Health Science Skills Lab at (714)546-6869 for paperwork BEFORE registration. Grade: Pass/No Pass Only. CSU

NCE 150

Registered Nurse Competency Refresher Course

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: Successful completion of a Registered Nursing Program.

This course focuses on Registered Nurse graduates who have been unable to find employment in the acute care setting and/or refresher RNs. This course will enhance both the recently graduated RN's and refresher RN's knowledge, skills, confidence and marketability prior to and during their job search. The course has three components: 1) Classroom theory, 2) Simulation, and 3) Skills practice with competency testing. CSU

NURSING - REGISTERED (NRN)

NRN 098

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in the Nursing area. Not offered every semester.

NRN 105

Cooperative Work Experience- Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

Corequisite: Concurrent enrollment in NRN 201L or NRN 202L.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

NRN 106A

Health Science Skills Laboratory- First Semester

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of the skills lab to assist the student in the development of clinical competency of nursing fundamentals and mastery of fundamental psychomotor skills content addressed in courses NRN-161, NRN 161L, NRN 163, NRN-163L NRN 171, and NRN 171L. Open entry/open exit. Pass/No Pass (Pass/No Pass Only) CSU

NRN 106B

Health Science Skills Laboratory- Second Semester

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the student in development of clinical competency of nursing concepts pertaining to maternal-child health and mastery of psychomotor skills related to maternal-child biological and psychosocial needs addressed in courses NRN 164, NRN 164L, NRN 165, NRN 165L, NRN 172, and NRN 172L. Open entry/open exit. Pass/No Pass. (Pass/No Pass Only) CSU

NRN 106C

Health Science Skills Laboratory- First Year Refresher

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: Enrollment in the Registered Nursing Program, EMT, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the re-entry student or EMT student in the expansion of clinical competency of principles of nursing and mastery of basic to intermediate pyschomotor skills content addressed in courses NRN 161, NRN 161L, NRN 163, NRN 163L, NRN 164, NRN 164L, NRN 171, NRN 171L, NRN 172, NRN 172L, EMT 104 or EMT 105. Open entry/open exit. Pass/No Pass. CSU

NRN 160

Introduction to Pharmacology

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.

Corequisite: NRN 161 and NRN 161L.

This course introduces the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: safety and infection control, diversity, health promotion, communication, professional behavior, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

NRN 161

Principles of Nursing Practice

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.

Corequisite: NRN 160 and NRN 161L.

This course introduces the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: elimination, metabolism, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, healthcare system, and ethics. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

NRN 161L

Principles of Nursing Practice Lab

Unit(s): 2.5 Class Hours: 135.0 Lab total.

Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.

Corequisite: NRN 160 and NRN 161.

This clinical course applies the concepts of NRN 161 within the four domains of Person, Health and Illness, Environment, and Nursing.

Emphasis is placed on the concepts within each domain including: elimination, metabolism, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, healthcare system, ethics, and clinical competency. (Pass/No Pass Only) CSU

NRN 162

Pharmacological Concepts

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Prerequisite: NRN 160 and NRN 161 and NRN 161L with a minimum grade of C.

Corequisite: NRN 163 and NRN 163L.

This course further develops the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system, cellular regulation, oxygenation, perfusion, reproduction, inflammation, infection, mobility, comfort, stress and coping, mood & affect, cognition, safety & infection control, communication, professional behavior, clinical reasoning/judgment, and ethics. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

NRN 163

Simple Concepts

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: NRN 160 and NRN 161 and NRN 161L with a minimum grade of C.

Corequisite: NRN 162; NRN 163L.

This course further develops the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, elimination, metabolism, perfusion, inflammation, tissue integrity, infection, mobility, comfort, cognition, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, and ethics. Upon completion, students should be able to explain safe nursing care incorporating the concepts discussed in this course. CSU

NRN 163L

Simple Concepts Lab

Unit(s): 2.5 Class Hours: 135.0 Lab total.

Prerequisite: NRN 161 and NRN 161L and NRN 160 with a minimum grade of C.

Corequisite: NRN 163 and NRN 162.

This clinical course applies the concepts of NRN 163 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, elimination, metabolism, perfusion, inflammation, tissue integrity, infection, mobility, comfort, cognition, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, ethics, and clinical competency. Upon completion, students should be able to demonstrate safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

NRN 164

Family Health Concepts

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: NRN 163 and NRN 163L and NRN 162 with a minimum grade of C.

Corequisite: NRN 164L

This course further describes the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, and ethics. Upon completion, students should be able to interpret safe nursing care incorporating the concepts discussed in this course. CSU

NRN 164L

Family Health Concepts Lab

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Prerequisite: NRN 163 and NRN 162 and NRN 163L with a minimum grade of C.

Corequisite: NRN 164.

This clinical course applies the concepts of NRN 164 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, ethics, and clinical competencies. Upon completion, students should be able to employ safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

NRN 165

Health Illness Concepts

Unit(s): 2.5 Class Hours: 45.0 Lecture total.

Prerequisite: NRN 164 and NRN 164L with a minimum grade of C.

Corequisite: NRN 165L.

This course relates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: psychosocial development, cognitive development, metabolism, cellular regulation, oxygenation, inflammation, infection, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this course. CSU

NRN 165L

Health Illness Concepts Lab

Unit(s): 2.5 Class Hours: 135.0 Lab total.

Prerequisite: NRN 164 and NRN 164L with a minimum grade of C.

Corequisite: NRN 165.

This clinical course applies the concepts of NRN 165 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: psychosocial development, cognitive development, metabolism, cellular regulation, oxygenation, inflammation, infection, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this course. (Pass/No Pass Only) CSU

NRN 170

Pharmacological Concepts of Nursing

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum of grade C.

Corequisite: NRN 171 and NRN 171L

This pharmacology course introduces the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain related to pharmacology including: fluid and electrolyte balance, metabolism, central nervous system, cellular regulation, oxygenation, perfusion, reproduction, inflammation, infection, mobility, comfort, stress and coping, mood & affect, cognition, safety & infection control, communication, professional behavior, diversity, health promotion, healthcare systems, clinical reasoning/judgment, and ethics. Further emphasis is placed on dosage calculations, drug classifications, and application of the nursing process to drug administration. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

NRN 171

Principles of Nursing Practice and Simple Concepts

Unit(s): 4.5 Class Hours: 81.0 Lecture total.

Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.

Corequisite: NRN 170 and NRN 171L.

This course introduces and develops the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: elimination, metabolism, fluid and electrolyte balance, perfusion, inflammation, infection, mobility, cognition, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, healthcare system, and ethics. Upon completion, students should be able to identify and explain safe nursing care incorporating the concepts discussed in this course. CSU

NRN 171L

Principles of Nursing Practice and Simple Concepts Lab

Unit(s): 4.5 Class Hours: 243.0 Lab total.

Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.

Corequisite: NRN 171 and NRN 170.

This clinical course applies the concepts of NRN 171 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: elimination, metabolism, fluid and electrolyte balance, perfusion, inflammation, infection, mobility, cognition, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, healthcare system, ethics, and clinical competency. (Pass/No Pass Only) CSU

NRN 172

Family Health and Illness Concepts

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: NRN 170 and NRN 171 and NRN 171L with a minimum grade of C.

Corequisite: NRN 172L.

This course describes and relates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, oxygenation, inflammation, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this Family Health and Illness Concepts course. CSU

NRN 172L

Family Health and Illness Concepts Lab

Unit(s): 4.5 Class Hours: 243.0 Lab total.

Prerequisite: NRN 170 and NRN 171 and NRN 171L with a minimum grade of C.

Corequisite: NRN 172.

This clinical course applies the concepts of NRN 172 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, oxygenation, inflammation, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this Family Health and Illness Concepts Lab. CSU

NRN 198

Topics

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in the nursing area. Not offered every semester. CSU

NRN 200

Role Transition

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Corequisite: Acceptance into the Nursing Program.

Bridge course for LVN or transfer student with an emphasis on RN role development.

Application of the nursing process within the Santa Ana College Nursing Conceptual Framework. Review of test-taking strategies, medication calculations, fluid balance, and skills testing. Open to all nursing students; required of advanced placement. CSU

NRN 206A

Health Science Skills Laboratory- Third Semester

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: Enrollment in the Registered Nursing Program, EMT, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the student in development of clinical competency of mental health nursing and mastery of psychomotor skills content addressed in courses NRN 261, NRN 261L, NRN 262, NRN 262L, NRN 271, and NRN 271L. Open entry/open exit. Pass/No Pass (Pass/No Pass Only) CSU

NRN 206B

Health Science Skills Laboratory- Fourth Semester

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the student in development of clinical competency of advanced medical/surgical nursing concepts and mastery of advanced medical/ surgical psychomotor skills content addressed in courses NRN 263, NRN 263L, NRN 264L, NRN 272, and NRN 272L. Open entry/open exit. (Pass/No Pass Only) CSU

NRN 206C

Health Science Skills Laboratory- Second Year Transition

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of skills lab to assist the RN refresher, advanced placed nursing student, or EMT student in the development and maintenance of clinical competency of nursing theoretical knowledge and mastery of advanced psychomotor skills content necessary for the transition into clinical practice as addressed in courses NRN 261, NRN 261L, NRN 262, NRN 262L, NRN 263, NRN 263L, NRN 264L, NRN 271, NRN 271L, NRN 272, and NRN

272L; EMT 104, or EMT 105. Open entry/open exit. Pass/No Pass. CSU

NRN 261

Mental Health Concepts

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Prerequisite: NRN 165 and NRN 165L with a minimum grade of C.

Corequisite: NRN 261L.

This course examines the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress and coping, mood and affect, cognition, addictive behavior, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to analyze safe nursing care incorporating the concepts discussed in this course. CSU

NRN 261L

Mental Health Concepts Lab

Unit(s): 1.5 Class Hours: 81.0 Lab total.

Prerequisite: NRN 165 and NRN 165L with a minimum grade of C.

Corequisite: NRN 261.

This clinical course applies the concepts of NRN 261 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress and coping, mood and affect, cognition, addictive behavior, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, health care system, ethics and clinical competency. Upon completion, students should be able to utilize safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

NRN 262

Acute Concepts

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: NRN 261 and NRN 261L with a minimum grade of C.

Corequisite: NRN 262L.

This course correlates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, and ethics. Upon completion, students should be able to analyze safe nursing care incorporating the concepts discussed in this course. CSU

NRN 262L

Acute Concepts Lab

Unit(s): 3.0 Class Hours: 162.0 Lab total.

Prerequisite: NRN 261 and NRN 261L with a minimum grade of C.

Corequisite: NRN 262.

This clinical course applies the concepts of NRN 262 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, ethics, and clinical competency. Upon completion, students should be able to validate safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

NRN 263

Complex Concepts

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

Prerequisite: NRN 262 and NRN 262L with a minimum grade of C.

Corequisite: NRN 263L.

This course formulates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behavior, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to synthesize safe nursing care incorporating the concepts discussed in this course. CSU

NRN 263L

Complex Concepts Lab

Unit(s): 2.5 Class Hours: 135.0 Lab total.

Prerequisite: NRN 262 and NRN 262L with a minimum grade of C.

Corequisite: NRN 263.

This clinical course applies the concepts of NRN 263 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, ethics, and clinical competency.

Upon completion, students should be able to synthesize safe nursing care incorporating the concepts discussed in this course. (Pass/No Pass Only) CSU

NRN 264L

Preceptorship Lab

Unit(s): 2.5 Class Hours: 135.0 Lab total.

Prerequisite: NRN 263 and NRN 263L with a minimum grade of C.

This clinical course applies the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on developing leadership skills including time management, prioritization, and delegation in an independent clinical environment precepted by an experienced registered nurse. Upon completion, students should be able to manage safe nursing care incorporating the concepts identified and discussed in the nursing curriculum. (Pass/No Pass Only) CSU

NRN 271

Mental Health and Acute Concepts

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: NRN 172 and NRN 172L with a minimum grade of C.

Corequisite: NRN 271L.

This course examines the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress & coping, mood & affect, cognition, addictive behavior, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety & infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to analyze safe nursing care incorporating the concepts discussed in this course. CSU

NRN 271L

Mental Health and Acute Concepts Lab

Unit(s): 4.5 Class Hours: 243.0 Lab total.

Prerequisite: NRN 172 and NRN 172L with a minimum grade of C.

Corequisite: NRN 271.

This clinical course applies the concepts of NRN 271 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress & coping, mood & affect, cognition, addictive behavior, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety & infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, ethics and clinical competency. CSU

NRN 272

Complex Concepts

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

Prerequisite: NRN 271 and NRN 271L with a minimum grade of C.

Corequisite: NRN 272L.

This course formulates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety & infection control, diversity, health promotion, communication, professional behavior, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to synthesize safe nursing care incorporating the concepts discussed in this course. CSU

NRN 272L

Complex Concepts and Preceptorship Lab

Unit(s): 4.5 Class Hours: 243.0 Lab total.

Prerequisite: NRN 271 and NRN 271L with a minimum grade of C.

Corequisite: NRN 272.

This clinical course applies the concepts of NRN 272 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety & infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, ethics, and clinical competency. Additional emphasis is placed on developing leadership skills including time management, prioritization, and delegation in an independent clinical environment precepted by an experienced registered nurse. Upon completion, students should be able to manage safe nursing care incorporating the concepts identified and discussed in the nursing curriculum. (Pass/No Pass Only) CSU

NUTRITION AND FOOD (NUTR)

NUTR 101

The Food System and Career Opportunities

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Exploration of career opportunities and projected employment trends in dietetics, food science, and the food industry. Includes educational requirements for nutrition and dietetics majors, skill preparation, professional organizations, and ethics. CSU

NUTR 110

Food Safety and Sanitation

Formerly: Food Sanitation and Safety

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Sanitation practices affecting individual operations. Prevention and control of foodborne illnesses through flow of food and HACCP management. Also includes study of worker safety. Same as Culinary Arts 110. CSU

NUTR 112

Food Service Nutrition

Formerly: NUTR 120, Food Service Nutrition

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Principles of nutrition and their application to personal lifestyle and a professional kitchen through an analysis of marketing, food trends, menu design and recipe modification. CSU

NUTR 115 (C-ID NUTR 110)

Nutrition

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs. CSU/UC

NUTR 115H (C-ID NUTR 110)

Honors Nutrition

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs. Content enriched for honors students, to provide a critical and extensive exploration of the major areas of nutrition, including issues related to nutrition and disease states. CSU/UC

NUTR 116 (C-ID NUTR 120)

Principles of Food Preparation

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: Negative T.B. test or chest x-ray.

Application of scientific principles in the preparation of selected food products emphasis on physical and chemical properties of food; methods and techniques of food preparation; factors that contribute to quality of prepared foods. CSU

NUTR 120

Food and Culture

Formerly: NUTR 118, Cultural Foods

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A multicultural perspective on traditional and contemporary food choices. The class considers customs associated with food in relation to religion, health/medicine, human survival and symbolism. The impact of socioeconomic, historical events, population movements, and geography are also discussed. CSU/UC

NUTR 121

Sports Nutrition

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the role nutrition plays in sports and athletic performance. An emphasis on energy and nutrient needs, determination of hydration status, sport specific nutrient recommendations, body composition, and supplementation guidelines. CSU

OCCUPATIONAL THERAPY ASSISTANT (OTA)

OTA 100

Medical Terminology and Documentation for the O.T.A.

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: BIOL 149 or BIOL 239 and BIOL 249 with a minimum grade of C.

This course will offer an introduction to basic medical terminology and documentation appropriate to practice needs of the Occupational Therapy Assistant. CSU

OTA 101

Foundations of Occupation and Occupational Therapy

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

This course defines and explores occupation as it is used to provide the foundation for study of the occupational therapy profession. It further provides an overview of the history and development of occupational therapy as well as the dimensions of past and present practice. CSU

OTA 101L

Exploration of Occupation Through Activity

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Prerequisite: ENGL 101 or ENGL 101H and 3 units of Communication Studies (101 or 101H, or 102 or 140, or 145 or 152) with a minimum grade of C.

In this lab class, students will explore the meaning and variability of occupation through self-analysis of occupational patterns, perform task analysis of varied activities, and have the opportunity to observe and practice teaching and learning skills. CSU

OTA 102

Psychosocial Function and Dysfunction

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.

This course will define and explore psychosocial phenomena commonly seen by the Occupational Therapy Assistant and will examine evaluation techniques, functional deficits, and methods of treatment. CSU

OTA 102L

Psychosocial Components of Occupation

Unit(s): 2.5 Class Hours: 144.0 Lab total.

Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.

This course will explore the occupational therapy assistant's role in therapeutic relationships, in administering assessments used primarily in pediatric, adolescent, and adult psychosocial settings, and in therapeutic group design and facilitation. CSU

OTA 103

Physical Function and Dysfunction

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: OTA 102, OTA 102L, OTA 115, and OTA 111 with a minimum grade of C.

This course will focus on the occupational function of the child, adolescent, and adult which emphasizes the physical components of development, the continuum of function/ dysfunction of the client and the role of the O.T.A. in assessment and treatment of commonly seen physical dysfunction diagnosis. CSU

OTA 103L

Physical Components of Occupation

Unit(s): 2.5 Class Hours: 144.0 Lab total.

Prerequisite: OTA 102, OTA 102L, OTA 115, and OTA 111 with a minimum grade of C.

This lab course explores the Occupational Therapy Assistant's role in safety, assessments and treatment techniques commonly used by occupational therapists in physical dysfunction settings. CSU

OTA 110

Human Occupation Across Lifespan

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.

This course will explore human occupation across lifespan with an emphasis on the relationship between human development and occupational choice. Physical, cognitive, psychological, social, and linguistic developmental milestones and changes will be covered from fetal development through old age. CSU

OTA 111

Applied Kinesiology

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.

This course will focus on understanding human movement as an integral component of occupational performance and will examine how kinesiology and biomechanics are utilized in treatment by the Occupational Therapy Assistant. CSU

OTA 115

Human Disease and Occupation

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.

This class will explore diseases that are commonly seen in occupational therapy practice and the effect they have on participation in occupation. Each disease will be covered in terms of etiology, prognosis, prevention, pathophysiology, medical management, precautions, and lifestyle redesign required as a result of the disease. CSU

OTA 201

Contemporary Models of Occupational Therapy Practice

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: OTA 102, OTA 102L, OTA 111, and OTA 115 with a minimum grade of C.

This lecture/lab course explores the multiple roles of the occupational therapy assistant in documentation, service management, professional behaviors, non-traditional roles, and contemporary models of practice. CSU

OTA 202

Level II Fieldwork - Part I

Unit(s): 6.0 Class Hours: 360.0 Lab total.

Prerequisite: OTA 103 and OTA 103L and OTA 201 with a minimum grade of C.

Supervised fieldwork experience in an occupational therapy practice setting that will provide the student appropriate opportunities to apply learned knowledge and skills. CSU

OTA 203

Level II Fieldwork - Part II

Unit(s): 6.0 Class Hours: 360.0 Lab total.

Prerequisite: OTA 103 and OTA 103L and OTA 201 with a minimum grade of C.

Supervised fieldwork experience in an occupational therapy practice setting that will provide the student appropriate opportunities to apply knowledge and skills learned in the classroom. CSU

OCCUPATIONAL STUDIES (OS)

OS 301

Therapeutic Approaches to the Older Adult

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course will build upon the developmental concepts of aging to examine quality of life in older adulthood. The focus of this course will be on evaluating older adults from an occupational perspective and analyzing the skills needed to maintain independence and to successfully participate in meaningful activities throughout the older years.

OS 304

Movement Theory & Analysis

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

Movement is a significant aspect of occupational performance. This course will focus on current theories of motor control and motor learning with an emphasis of how these theories can be applied to provide evidence-based practice to those with motor dysfunction.

OS 305

Advanced Pediatric Practice for the Occupational Therapy Assistant (OTA)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This course will build upon developmental concepts related to pediatric Occupational Therapy (OT) practice. The focus of this course will be to look at specific settings related to pediatric occupational therapy practice. It will focus on evaluating the pediatric client related to acute hospital care and school based intervention.

OS 310

Community-Based Occupational Therapy Practice

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This course will focus on the practice of Occupational Therapy (OT) in community-based settings. This will include an in-depth analysis of both the history and growth of OT practice in the community. Students will analyze the role of OT in community settings with a variety of populations.

OS 312

Advanced Practice Areas in Occupational Therapy (OT)

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This course will provide a study of the advanced practice areas in occupational therapy. Advance practice areas in occupational therapy include: physical agent modalities (PAMs), hand therapy and feeding and swallowing. This class will focus on the theory and application of PAMs for the use in occupational therapy; the fundamentals of hand therapy including treatment guidelines in occupational therapy; and feeding and swallowing issues with the occupational therapy client.

OS 325

Applying Research to Occupational Therapy Intervention

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This course will provide an in-depth study of utilizing evidence to develop effective treatment plans in Occupational Therapy. The focus will be on critically evaluating available research to develop best practice in intervention.

OS 402

Neurological Principles in Human Performance

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This course will provide an in-depth study of the neurologic principles used in rehabilitation practice. This will focus on understanding the structures and function of the central and peripheral nervous systems and to the sequelae of injury to these systems. There will be an emphasis on cognitive, visual, and perceptual problems in adults with acquired brain injury.

OS 403

Leadership for the Occupational Therapy Assistant (OTA)

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This course will explore leadership roles that are available to the OTA and the skills that are needed to assume them. The focus will be on leadership, advocacy, marketing, quality improvement, supervision, and scholarship. Students will also explore volunteerism and active participation in professional organizations.

OS 410

Healthcare Systems

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This course will cover the various healthcare systems that influence the practice of occupational therapy. Topics will include economics, types of insurance, healthcare policies, ongoing healthcare reform, and the role of technology. As a part of this course students will complete an independent, in-depth, study of one of the key practice areas in OT as identified by the American Occupational Therapy Association (AOTA).

OS 412

Capstone Seminar

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.

This Capstone Seminar is designed to demonstrate the student's accumulated training through the development of a project that reflects theory, advanced knowledge of practice, and innovation. The theme of each project will be facilitating engagement in occupation with the use of a therapeutic product. Each student will complete a project that is individually mentored and demonstrates an increased level of self-direction.

PARALEGAL (PARA)

PARA 100

Law and Society

Formerly: The Paralegal Profession

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the legal system including the courts, participants and various sources of law in the American legal system and how society is affected. Review of the legal and judicial process in the United States covering the adversarial system, jurisdiction of federal and state courts, and the general process of judicial review and how different segments of society are affected. Explanation of different sources of law including statutes, court cases and administrative agency rules. Review of basic legal reasoning and introductory legal research methods. Introduction to substantive areas of law and the effect the law has in various groups and individuals in our system. Review of the role and regulation of legal professionals, legal ethics and consumer protection laws, and their effect on providing legal services to various segments of society. Same as Law 100. CSU

PARA 101

Law Office Management

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Structure and procedures of the law office. Emphasis on time management, the role of paralegals and paralegal administrators in the law office, ethics in the law office, client property regulations, time keeping and billing, and technology management in a law office. CSU

PARA 105

Cooperative Work Experience Education - Occupational

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. A student can earn 1 to 4 units per semester, up to a maximum of 4 units total. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. CSU

PARA 107 (C-ID AJ 122)

Principles and Procedures in the Criminal Justice System

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal, utilizing statutory law and state and constitutional law precedents. (Same as Paralegal 107.) CSU

PARA 117

Law of Global Commerce and Management

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about financial mechanisms and laws regulating international distribution. Learn about international limited liability companies, and foreign direct investment. Learn how countries join together to create trade. Includes NAFTA/USMCA, GATT, the EU and other trade agreements around the world. Explore management and law in different legal environments as well as U.S. export regulations. CSU

PARA 120

Computers in the Law Office

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Exploration of technology utilized in a legal service office environment. Study of legal focused software and applications. CSU

PARA 121

Legal Ethical Reasoning

Formerly: Ethics and Professional Responsibility

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, responsibility, as applied to the Legal Profession. The course will explore the application of the California Rules of Professional Conduct as applied to the legal profession and society in general. CSU

PARA 122

Elder Law

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Law and procedures for the aging population. Interviewing, advance directives, wills, trusts, guardianships, patients' rights in healthcare decisions, entitlement programs, managed care, long-term care insurance, viatical settlements, living facilities, financial planning, social security, and elder abuse. Field trips may be required. CSU

PARA 130

Legal Transactions

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: PARA 100 with a minimum grade of C or concurrent enrollment.

Introduction to contracts and drafting legal documents. Contract formation, performance, and breach and third party interests. Students will learn to draft various contracts and other documents and will select, edit, and customize formbook and computerized forms in real property, family law, and estate planning. CSU

PARA 131

Advanced ADR Practice

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Study of the practical aspects of the Paralegal's role in assisting an attorney in Alternative Dispute Resolution. CSU

PARA 132

Family Law and Procedure

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Study of basic substantive law and procedures in family law: Court procedures for divorce, annulment, temporary and permanent support, restraining orders, division of community property, and child custody procedures including adoption and paternity actions. May require a field trip. CSU

PARA 133

Workers Compensation Law and Procedure

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Study of the laws and procedures related to worker's compensation. Covers medical-legal problems attendant to on-the-job injuries, disabilities and benefits due employees, court litigation, administrative hearings, and out-of- court processes. May require field trips. CSU

PARA 134

Estate Planning and Administration

Formerly: Probate Law and Procedures

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Probate and estate planning procedures. Study of the Paralegal's role in drafting estate planning and administration documents, assisting attorneys in administration of estates, and monitoring asset and fiduciary accountings. Study of basic estate planning, probate laws, wills, trusts, and taxes. Field trip may be required. CSU

PARA 135

Bankruptcy Law and Procedure

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Federal bankruptcy act and court procedures for the paralegal, the functions of the bankruptcy trustee, and a detailed examination of the process of being declared a bankrupt. May require a field trip. CSU

PARA 136

Real Property Law and Procedure

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

A study of the laws and procedures of real property. A study of the role of a paralegal in a law practice that specializes in real property law with an emphasis on the landlord/tenant relationship. Field trips may be required. CSU

PARA 137

Tort and Insurance Law

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

In class study of the theory of torts and the paralegals role in assisting an attorney in the delivery of legal services to a client. The course will study theory of liability, remedies, procedures and the ethical responsibilities in assisting an attorney in a tort related practice. Field trips may be required. CSU

PARA 138

Law of Business Organizations

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Laws of the California Corporations Code. Students prepare articles of incorporation, minutes, by-laws, stock, and stock transfer. Agency law and partnership laws. Students will understand compliance regulations. CSU

PARA 139

Fundamentals of Labor Law

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

An introduction to labor law and the judicial system. The course will examine major areas of labor law including the complaint, conference, hearings and appeals. CSU

PARA 140

Immigration Law and Procedure

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Basic study of Immigration Law in the United States, with focus on preparation of those forms used by immigrants to secure benefits. Computerized preparation of forms and procedures for filing with INS will be emphasized. Marketing procedures for paralegals involved in Immigration Law will be analyzed, and ethical considerations to avoid the illegal practice of law will be covered. CSU

PARA 143

Civil Litigation Overview

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: PARA 100 with a minimum grade of C or concurrent enrollment.

Overview of California civil procedure from acceptance of case to trial. Planning litigation, pleadings, motions, discovery, and trial preparation. CSU

PARA 144

Introduction to eDiscovery

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Focus on the discovery phase of litigation with specific instruction on eDiscovery. The study of the California Rules of Court, California Statutes and procedures for e-filing and eDiscovery regulations regarding the retention and production of electronic data in a civil litigation case. Practical applications for paralegals. CSU

PARA 145

Civil Litigation Overview

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Overview of California procedures from acceptance of a case through trial. Planning litigation, motions, discovery, and trial preparation. Preparation of pleadings. Overview of California discovery rules, preparation of discovery documents, and responses. CSU

PARA 146

Tort Law and Alternative Dispute Resolution

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Intentional torts, negligence, strict liability, product liability, damages, immunity, and defenses to torts. Principles of insurance law and procedures for the investigation of personal injury cases. Principles of dispute resolution through negotiation, mediation, and arbitration. Students will mediate impartially and use tools to maximize negotiation effectiveness. The course includes application of mediation skills in the law office. CSU

PARA 147

International Commercial Agreements and Distribution Law

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about contracts with foreign sales representatives and laws regulating international distribution. Learn about international limited liability companies and foreign direct investment laws (Same as Business 147). CSU

PARA 148

International Intellectual Property Law

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn international intellectual property law - patents, copyrights, trademarks, and trade secrets. Learn international treaties relating to intellectual property rights. Learn technology licensing agreements and international franchising (Same as Business 148). CSU

PARA 149

The Law of Global Commerce

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

How countries join together to create trade. Includes NAFTA, GATT, the EU, and other trade agreements around the world. Explore law in different legal systems as well as U.S. export regulations (Same as Business 149). CSU

PARA 150

Legal Transactions

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Introduction to contracts and drafting legal documents for corporations and real estate transactions. Contract formation, performance, breach, and third party interests. Students will learn the laws of the California Corporations Code and the laws governing real estate transactions. Students will learn to draft various contracts and other documents and will select, edit, and customize formbook and computerized forms in real property, corporations, family law, and estate planning. CSU

PARA 246

Legal Research and Analysis

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Recommended Preparation: LAW 100 or PARA 100 with a minimum grade of C.

Principles of legal research, legal analysis, and techniques for the Paralegal to assist an attorney in the delivery of legal services to their client. CSU

PARA 248

Advanced Research and Writing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: PARA 246 with a minimum grade of C.

Advanced projects in legal research and writing emphasis on legal form and style. Students must pass Para 246 with a C or better prior to taking Para 248. CSU

PARA 297

The Professional Paralegal

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This is the capstone class to the paralegal degree. Students will demonstrate their knowledge of ethics, legal principles, and the technical skills necessary for entry level employment as a paralegal. This course is to be taken in the semester of or prior to graduation. This course will include preparation of graduation petitions, professional resumes and a professional portfolio that will include work prepared in Para 101, Para 121, Para 120, Para 145 and Para 150. Students will be required to certify they are in the second to last or last semester prior to graduation. (Pass/ No Pass Only) CSU

PARA 299

Cooperative Work Experience Education

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. A student can earn 1 to 4 units per semester, up to a maximum of 16 units total. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. CSU

PHARMACY TECHNOLOGY (PHAR)

PHAR 048

Introduction to Pharmacy Technology

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Overview of the SAC Pharmacy Technician training program. Definition of the roles and preview of the opportunities open to pharmacy technicians in various practice settings. Presentation of pharmaceutical dosage forms, the drug development process, and drug classification systems. Introduction to prescription labeling and to the law and ethics of pharmacy practice.

PHAR 051

Body Systems I

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

Anatomy, physiology, pathology, and pharmacology of the musculoskeletal, respiratory, renal, and cardiovascular systems. Basic terminology, with emphasis on word analysis and construction, medical abbreviations, and lay terms. Trade/generic names and indications for each body system.

PHAR 052

Body Systems II

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

Anatomy, physiology, pathology, and pharmacology of the integumentary, endocrine, gastrointestinal, and nervous systems. Basic terminology, with emphasis on word analysis and construction, medical abbreviations, and lay terms. Trade/generic drug names and indications for medications in each body system. Emphasis on top 200 drugs.

PHAR 054A

Beginning Pharmacy Calculations

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Recommended Preparation: MATH N06 with a minimum grade of C.

This course introduces students to calculations related to drug dosage and preparation of medications. Interconversion of units in the metric and common systems of measurement are included. There is emphasis on unit- cancellation for solving pharmacy situation problems, as well as a strong verbal component.

PHAR 054B

Advanced Pharmacy Calculations

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Prerequisite: PHAR 054A with minimum grade of C.

Students will learn calculations related to drug dosage using body surface area, measurements of strength, and preparation of medications. Calculations of dosage strength include ratio strength, percentage strength, and milligram percentage strength. Common dilutional calculations and allegation methods are included. There is emphasis on unit- cancellation for solving pharmacy situation problems as well as strong verbal component.

PHAR 056

Pharmacy Operations

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Prerequisite: PHAR 048 and PHAR 051 or PHAR 052 and PHAR 054B with a minimum grade of C; Typing proficiency minimum of 30 wpm with 95% accuracy.

Hands-on training in customer service, inventory control, compounding, packaging, record-keeping, and drug distribution in the outpatient pharmacy setting. Includes prescription lab simulations and use of computers.

PHAR 056L

Pharmacy Technology Skills Lab

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 056.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Pharmacy Operations lab class. Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

PHAR 057

Inpatient Pharmacy Services

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: PHAR 048 and PHAR 051 or PHAR 052 and PHAR 054B with a minimum grade of C; Typing proficiency of 30 WPM with 95% accuracy.

Technical aspects of drug distribution for the inpatient (hospital) pharmacy setting. Hands- on training in medication order processing, pharmacy patient profile maintenance, medication preparation (includes packaging), and inpatient drug distribution using manual and automated systems. Includes electronic and manual record-keeping, pharmacy law, and CQI. Hands-on training in medication reconciliation in the emergency room setting. Develop and enhance communication and patient-interviewing skills through various communication methods.

PHAR 057L

Pharmacy Technology Skills Lab

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 057.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Inpatient Pharmacy Services lab class (PHAR 057). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy, in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

PHAR 060

Sterile Products

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Prerequisite: PHAR 048 and PHAR 051 or PHAR 052; PHAR 054B; typing proficiency of 30 WPM with 95% accuracy.

Application of aseptic techniques and use of the laminar flow hood in the preparation of sterile products in accordance to USP 797. Emphasis on parenteral calculations, sterile dosage forms, and quality assurance procedures. Includes the pharmacology of antimicrobial and antineoplastic drugs.

PHAR 060L

Pharmacy Technology Skills Lab

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 060.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Sterile Products lab class (PHAR 060). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

PHAR 072A

Pharmacy Technology Externship Outpatient

Unit(s): 0.5-1.5 Class Hours: 45.0-90.0 Lab total.

Prerequisite: PHAR 056 and CMST 101 or CMST 101H or CMST 102 or CMST 097 for non-native speakers; Background checks, health screening, current TB clearance and drug test clearance.

On-site training in the outpatient (retail) practice setting. Students must complete PHAR 056 lab class to qualify for the outpatient rotation. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of the outpatient rotation PHAR 072A is required for the Basic Certificate. Completion of PHAR 072A, PHAR 072B, PHAR 072C rotations (320 hours) is required for the advanced certificate and Associate Degree. (Pass/No Pass Only)

PHAR 072B

Pharmacy Technology Externship Inpatient

Unit(s): 0.5-2.5 Class Hours: 40.0-135.0 Lab total.

Prerequisite: PHAR 056 and PHAR 057 and CMST 101 or CMST 101H or CMST 102 or CMST 097 for non-native speakers; Background checks, health screenings, current TB clearance and drug test clearance.

On-site training in the inpatient (hospital) practice setting. Students must complete the following lab courses prior to placement: PHAR 057 and PHAR 056. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of PHAR 072A, PHAR 072B, PHAR 072C rotations (320 hours) is required for the advanced certificate and Associate Degree. At the end of the rotation, the instructor will use the attendance records and competency forms as input from preceptors to assess the student learning outcomes and to help determine final grades. Students can refer to the course overview to understand the details of final grade assignments. (Pass/No Pass Only)

PHAR 072C

Pharmacy Technology Externship Sterile Products

Unit(s): 0.5-2.5 Class Hours: 40.0-135.0 Lab total.

Prerequisite: PHAR 060 and CMST 101 or CMST 101H or CMST 102 or CMST 097 for non-native speakers; Background checks, health screenings, current TB clearance and drug test clearance.

On-site training in the home infusion or sterile products pharmacy practice setting. Students must complete the following lab course prior to placement: PHAR 060. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of PHAR 072A, PHAR 072B, PHAR 072C Rotations (320 hours) is required for the advanced certificate and Associate Degree. At the end of the rotation, the instructor will use the attendance records and competency forms as input from preceptors to assess the student learning outcomes and to help determine final grades. Students can refer to the course overview to understand the details of final grade assignments. (Pass/No Pass Only)

PHAR 072L-1

Pharmacy Technology Skills Lab

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 056; Returning students who took PHAR 056 can take PHAR 072L-1 alone

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Outpatient Pharmacy Technology Externship rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

PHAR 072L-2

Pharmacy Technology Skills Lab

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 057; Returning students who took PHAR 057 can take PHAR 072L-2 alone.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Inpatient Pharmacy Technology Externship rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills Lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

PHAR 072L-3

Pharmacy Technology Skills Lab

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 060; Returning students who took PHAR 060 can take PHAR 072L-3 alone.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Pharmacy Externship Sterile Products rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

PHILOSOPHY (PHIL)

PHIL 106 (C-ID PHIL 100)

Introduction to Philosophy

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey of historical and contemporary ideas on how to live the good life. CSU/UC

PHIL 106H (C-ID PHIL 100)

Honors Introduction to Philosophy

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched approach designed for honors students. A survey of historical and contemporary ideas on how to live the good life. CSU/UC

PHIL 108 (C-ID PHIL 120)

Ethics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to key historical and modern theories of philosophical ethics and the application of these theories to ethical issues facing society today. Assists in clarifying our thinking about morality/ethics. Course increases awareness of values in personal and contemporary issues. CSU/UC

PHIL 110

Critical Thinking

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.

College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society. CSU/UC

PHIL 110H

Honors Critical Thinking

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C AND a cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

An enriched approach designed for honors students in a seminar setting. College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society. CSU/UC

PHIL 111 (C-ID PHIL 110)

Introductory Logic

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Beginning course in formal and applied logic. Covers cognitive language, formal argument, proof, basic propositional and predicate logic, and philosophy of logic. Emphasizes active student involvement and practical application to college life. CSU/UC

PHIL 112

World Religions

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A philosophical overview of the world's great religions. Includes historical origin and growth of each religion, major doctrines, and influence. Religions dealt with include Indigenous Religions, Hinduism, Jainism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam. CSU/UC

PHIL 118

History of Philosophy

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to philosophy from an historical perspective: getting acquainted with the thoughts of the world's great philosophers. Provides a survey of the dominant philosophies of the ancient, medieval, and modern worlds. CSU/UC

PHOTOGRAPHY (PHOT)

PHOT 009

Photography Lab

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: Concurrent enrollment in another photography course.

Sign-in/out supervised laboratory. Work on assignments from other photography courses or on independent projects. Completion of new and more advanced assignments each semester. Accumulation of 24 hours earns 0.5 unit. Requires concurrent enrollment in a photography course.

PHOT 150

History of Photography

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey of the history, aesthetics, and technical evolution of photography including an in-depth view of artistic styles and individual photographers' contributions from the 19th century to the present. CSU/UC

PHOT 180

Beginning Photography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course provides students with an introduction to visual concepts, basic image capture, and camera functions with digital cameras. Software basics for photographic imaging and digital printing. CSU/UC

PHOT 185A

Landscape Photography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 180 with a minimum grade of C.

This course concentrates on producing images under available light conditions found in natural and man-made environments. Topics include creating awareness of light and its function along with learning techniques for exposing under many different lighting conditions. CSU

PHOT 185B

Landscape Photography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 185A with a minimum grade of C.

Continued instruction in cityscape, seascape, and landscape photography with special attention given to documentary, pictorial, and metaphorical styles. A DSLR camera required. CSU

PHOT 191

Commercial Studio Practices

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 180 with a minimum grade of C.

Instruction in specialized technical alternatives utilized in commercial studio photography. Emphasis will be on professional image-making with digital cameras, using scanning, digital printing, and commercial lighting techniques. CSU

PHOT 194

Digital Workflow

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 180 with a minimum grade of C.

This class will provide a foundation for capturing and processing RAW digital photo files with high end digital imaging hardware and software. Emphasis on creating organization of files for client needs. CSU

PHOT 196

Commercial Photography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 180 with a minimum grade of C.

This course instructs the student with lighting and studio techniques as commonly used in professional photographic applications. The emphasis will be on light and the use of lighting equipment in both studio and location situations. CSU

PHOT 197

Intermediate Commercial Photography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 196 with a minimum grade of C.

Intermediate techniques in commercial photography using available and studio lighting. Further studies in the commercial subject areas of portrait/wedding, architecture, table top/product illustration, stock photography and photojournalism. CSU

PHOT 291

Wedding and Quinceañera Photography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 180 with a minimum grade of C.

Instruction in fundamental concepts, equipment demands, and photographic techniques used by contemporary wedding/quinceañera photographers. CSU

PHOT 292

Portrait Photography

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 180 with a minimum grade of C.

In this course the student will learn portrait styles and techniques using both natural, and artificial lighting in the studio and on location. CSU

PHOT 294

Color Photographic Expression

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: PHOT 180 with a minimum grade of C.

Introduction to the theory and practice of color in Fine Art Photography. Printing color photographs as a fine art medium. Course includes lectures, interpretive (field) assignments, laboratory work, research of well- known photographers using color in fine art photography and critiques. Camera required. CSU

PHYSICAL SCIENCE (PSC)

PSC 115

Concepts in Physical Sciences for Educators

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

An investigation of 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. Designed for non-science majors, concepts are introduced in lab through inquiry and further developed during discussion. Completion of Math N48 is recommended (Same as Chemistry 115). CSU/UC

PSC 117

Physical Science Survey

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the methods of science and concepts relating to mechanics, states of matter, waves, heat, electricity, light, atomic structure, and chemical reactions. May include topics from Earth and space science. Emphasis is on basic principles, relationships, and applications to modern civilization. This course is open to all majors. Concurrent enrollment in Physical Science 118 is highly recommended. CSU/UC

PSC 118

Physical Science Survey Laboratory

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Laboratory course to accompany Physical Science 117. Laboratory topics include: motion, forces, energy, thermodynamics, electricity, circuits, optics, and chemical reactions. CSU/UC

PHYSICS (PHYS)

PHYS 109

Survey of General Physics

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

The study of important phenomena in physics. Topics include mechanics, fluids, thermodynamics, sound, light, electricity, magnetism, and modern physics. Recommended for all students interested in a conceptual approach to physics and students planning on taking more advanced courses in physics. CSU/UC

PHYS 210 (C-ID PHYS 105; C-ID PHYS 205)

Principles of Physics I

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: MATH 180 or MATH 180H with a minimum grade of C.

A calculus-based physics course designed for students majoring in the life sciences, pre- medicine, and related disciplines. Topics include classical mechanics, wave motion, and thermodynamics. CSU/UC

PHYS 211 (C-ID PHYS 110)

Principles of Physics II

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: PHYS 210 and MATH 180 or MATH 180H with a minimum grade of C.

A calculus-based physics course designed for students majoring in the life sciences, pre- medicine, and related disciplines. Topics include: electricity and magnetism, light, optics, and modern physics. CSU/UC

PHYS 217 (C-ID PHYS 205)

Engineering Physics I

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: MATH 180 or MATH 180H with a minimum grade of C.

Principles of classical mechanics including particle dynamics, forces, work, energy, momentum, rotational motion, equilibrium, harmonic motion, and gravity. This course is designed for students majoring in physical sciences and engineering. CSU/UC

PHYS 227 (C-ID PHYS 210)

Engineering Physics II

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: PHYS 217 and MATH 185 with a minimum grade of C.

Introduces the basic principles of electricity and magnetism. The main topics are electrostatics, circuits, magnetism, electro- magnetic induction, and Maxwell's equations. This course is designed for students majoring in physical sciences and engineering. CSU/UC

PHYS 237

Engineering Physics III

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: PHYS 217 and MATH 185 with a minimum grade of C.

Introduces the basic principles of fluids, thermodynamics, sound, light, optics, and modern physics. This course is designed for students majoring in physical sciences and engineering. CSU/UC

PHYS 279 (C-ID PHYS 105)

College Physics I

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: MATH 162 with a minimum grade of C.

A trigonometry-based physics course. Topics include: mechanics, thermodynamics, fluids, oscillatory motion, and sound. CSU/UC

HYS 289 (C-ID PHYS 110)

College Physics II

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Prerequisite: PHYS 279 and MATH 162 with a minimum grade of C.

A trigonometry-based physics course. Topics include: light, electricity, magnetism, and modern physics. CSU/UC

POLITICAL SCIENCE (POLT)

POLT 101 (C-ID POLS 110)

American Government and Politics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of United States national government and California state and local governments. Satisfies graduation requirement for American institutions and state requirements for California state government. CSU/UC

POLT 101H (C-ID POLS 110)

Honors American Government and Politics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

A student-oriented exploration of the historical and contemporary principles of American government. Study groups and individual computer-based research focus on basic political concepts of American national and state governments. Satisfies graduation requirement for American Institutions and state requirements for California state government. CSU/UC

POLT 200 (C-ID POLS 120)

American Political Thought

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examination of various theoretical approaches to politics within the American political context. Analysis of selected political theories and their application to American politics. CSU/UC

POLT 200H (C-ID POLS 120)

Honors American Political Thought

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students).

Examination of various theoretical approaches to politics within the American political context. Analysis of selected political theories and their application to American politics. CSU/UC

POLT 201 (C-ID POLS 130)

Introduction to Comparative Politics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A comparative analysis of different kinds of political systems; including their histories, political institutions, processes and policies, the environment in which they occur, and their consequences. CSU/UC

POLT 220 (C-ID POLS 140)

International Politics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. CSU/UC

POLT 235

Identity Politics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An inquiry into the history of racial/ethnic minority groups in American politics with an emphasis on political coalitions among different minority groups in contemporary politics. CSU/UC

PSYCHOLOGY (PSYC)

PSYC 100 (C-ID PSY 110)

Introduction to Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology. CSU/UC

PSYC 100H (C-ID PSY 110)

Honors Introduction to Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

Seminar style, content enriched course for honors students exploring the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology. CSU/UC

PSYC 140

Introduction to Psychology of Adulthood and Aging

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines psychological and related biological and social changes that occur in adulthood and old age and how these changes vary with ethnicity, gender and social class. Topics include longevity, health, successful aging, intimate and family relationships and mental disorders of adulthood. Designed to help students understand their own and others' aging and to familiarize them with issues in the field of gerontology. CSU/UC

PSYC 157 (C-ID CDEV 100)

Introduction to Child Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of human development from conception through adolescence. Covers major theories of development (cognition, perception, language, personality, social, etc.) and their application to parenting, teaching, and other interactions with children. (No credit if student has taken Child Development 107.) CSU/UC

PSYC 160 (C-ID PSY 180)

Introduction to Lifespan Psychology

Formerly: PSYC 180, Introduction to Lifespan Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to human development from a psychological perspective. Explores human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined from classical and contemporary perspectives. Attention will also be given to both normative and non-normative development. CSU/UC

PSYC 170

Multicultural Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduces students to important issues related to cultural diversity in the field of psychology. Major areas of psychology will be explored from a multicultural perspective, including research, mental health, social psychology, and identity development. Exploration of historically underrepresented populations in the U.S. will be emphasized. CSU/UC

PSYC 200 (C-ID PSY 150)

Introduction to Biological Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores relationships between physiological structures of the body and human behavior. Focuses on the organization and function of the brain, spinal cord, peripheral nervous system, glands, sensory and perceptual systems. Relates physiological functioning to motivated behavior, addiction, and psychological disorders. CSU/UC

PSYC 210 (C-ID SOCI 125; C-ID MATH 110)

Statistics for the Behavioral Sciences

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Prerequisite: MATH 083 or MATH 084 OR placement into Psychology 210 on the Mathematics Level 3 placement Exam and a course equivalent to MATH 083 or 084).

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. CSU/UC

PSYC 219 (C-ID PSY 200)

Introduction to Research Methods in Psychology

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: MATH 219 or PSYC 210 may be taken concurrently and PSYC 100.

Emphasizes methods of study in psychology, experimental design, analysis of variables contributing to experimental results, and data treatment. CSU/UC

PSYC 230 (C-ID PSY 115)

Psychology and Effective Behavior

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to psychoanalytic, behavioristic, cognitive, humanistic and existential theories of personality as they relate to dealing effectively with the changing demands of everyday life. Covers personal growth, self- concept, stress and coping, personal goals and motivation, and interpersonal relationships in relation to culture, gender, ethnicity, historical cohort, and socio-economic status. Includes exercises for increasing self-awareness, identifying personals goals, and for building skills for effective living and well-being. CSU/UC

PSYC 240 (C-ID PSY 170)

Introduction to Social Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: PSYC 100 or SOC 100 with a minimum grade of C.

An exploration of the interlocking dynamics of psychology and sociology focusing on the impact of social groups on individuals and on other groups. Content includes self- development, interaction, attitudes, conformity, friendship, love, aggression, group dynamics (Same as Sociology 240). CSU/UC

PSYC 250

Introduction to Abnormal Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: PSYC 100 or PSYC 100H with a minimum grade of C.

Introduction to the commonly diagnosed psychological disorders. Includes psychophysiological disorders, anxiety, depression, substance abuse, sexual dysfunctions, schizophrenia, developmental, cognitive, and personality disorders. Emphasis is on identification, symptomatology, etiology, and methods of therapeutic intervention. CSU/UC

READING (READ)

READ N50

Groundwork for Reading

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A reading course for students needing to build vocabulary and enhance reading comprehension. Recommended for students in English N50 or EMLS 055. Not applicable to associate degree. Grade: P/NP only.

READ N80

Fundamentals of Reading

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Instruction in basic reading skills including techniques for improving vocabulary and spelling, word attack skills, and reading comprehension. Recommended for students in English N60 or EMLS 055 or 107. Not applicable to associate degree. Grade: Pass/No Pass only.

READ 096

Individualized Reading Skills

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Individualized instruction in vocabulary, comprehension, critical evaluation, and reading rate. Grade: Pass/No Pass only. Open Entry/ Open Exit.

READ 098

Topics in Reading

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

Specialized courses on topics related to current needs of students. Not offered every semester. Grade: Pass/No Pass only.

READ 101

Introduction to Academic Reading

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Successful completion of Read N80 (with a grade of C or better) or appropriate score on college placement test is recommended.

Instruction toward students' mastery of higher- level vocabulary, reading comprehension at the level of proficiency, critical evaluation of college-level text and improvement of reading rate. CSU

READ 101A

Modules in Academic Reading - Vocabulary

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Intensive instruction in college-level vocabulary, including dictionary skills, word analysis, etymology, and context clues. Material may be discipline-specific, such as vocabulary in the humanities, social sciences, CTE, and STEM. CSU

READ 101B

Modules in Academic Reading - Comprehension

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Intensive instruction in college-level reading comprehension. Includes identification of the main idea and details that support it. Study reading strategies will include annotations, summaries, outlines, mapping. Material may be discipline-specific, such as text from the humanities, social sciences, CTE, and STEM. CSU

READ 101C

Modules in Academic Reading - Analysis and Critical Evaluation

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Intensive instruction in advanced reading comprehension and critical evaluation of college-level text. Material may be discipline-specific, such as text from the humanities, social sciences, CTE, and STEM. CSU

READ 101X

Acceleration to Academic Reading

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Accelerated instruction in basic reading skills culminating in students' mastery of higher-level vocabulary, reading comprehension at the level of proficiency and critical evaluation of college-level text. CSU

READ 102

Academic Reading

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Successful completion of Read 101 (with a grade of C or better) or appropriate score on college placement test is recommended.

Introduces a repertoire of reading strategies aimed at preparing students for comprehension of complex college-level reading material.

Advanced reading strategies provide the foundation for the development of critical reading and the recognition of patterns of academic thought. Reading strategies for specific disciplines, including the social sciences, business, humanities and the arts, mathematics and the natural sciences are presented. CSU

READ 150

Critical Reading

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

This course addresses the relationship between critical reading and critical thinking, including emphasis on the development of critical reading and thinking skills that facilitate the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading. CSU/UC

READ 198

Topics

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

Specialized courses on topics related to current needs of students. Not offered every semester. CSU

SOCIOLOGY (SOC)

SOC 100 (C-ID SOCI 110)

Introduction to Sociology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The scientific study of human societies and behavior focusing on the process of social interaction, patterns of social inequality, and the influence of social institutions on individuals as members of social groups. Special emphasis provided to explain factors promoting social stability and social change. CSU/UC

SOC 100H (C-ID SOCI 110)

Honors Introduction to Sociology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

A seminar-style, content-enriched course to provide a critical and extensive exploration of the sociological perspective, methods, and theories of social interaction, stability and change. Focuses on the importance of sociology for understanding individuals in a social context and provides a comprehensive understanding of and scientific way of thinking about society. CSU/UC

SOC 112 (C-ID SOCI 130)

Relationships, Marriages, and Family Dynamics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

In-depth examination of the process of developing intimate relationships leading to committed partnerships and marriages with emphasis on effective communication techniques, understanding relationship dynamics, parenting, diverse family systems and overcoming family stressors at each life stage. CSU/UC

SOC 140 (C-ID SOCI 115)

Social Problems

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An extensive survey of contemporary social trends and problems through sociological analysis concentrating on their causes, complexities, consequences, and possible solutions. Special emphasis will be placed on the problems in the U.S., with consideration of the global perspective. CSU/UC

SOC 140H (C-ID SOCI 115)

Honors Analysis of Social Trends and Problems

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)

A seminar-style, in-depth sociological analysis and critique of U.S. social trends and problems with an emphasis on contemporary and historical social policy with additional consideration of global perspectives. CSU/UC

SOC 240 (C-ID PSY 170)

Introduction to Social Psychology

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: SOC 100 or PSYC 100 with a minimum grade of C.

An exploration of the interlocking dynamics of psychology and sociology focusing on the impact of social groups on individual and on other groups. Content includes self- development, interaction, attitudes, conformity, friendship, love, aggression, group dynamics (Same as Psychology 240). CSU/UC

SOC 401

The Sociology of Health, Illness, and Healing

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: SOC 100 or SOC 100H with a minimum grade of C; Limitation on enrollment: Student must be admitted to the Occupational Studies program.

This course analyzes the social contexts of health, illness, and organized medical care. It examines empirical research and theory of the changing concepts of health, illness and medical practice in their socio-historical contexts. Topics will include: social epidemiology, the biomedical and social construction of health/illness, the experience of illness, the historical transformation of the health professions and the health work force, disparities in health care, medical technology, global comparisons of health care and health care reform.

SPANISH (SPAN)

SPAN 101 (C-ID SPAN 100)

Elementary Spanish I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Practice and integration of pronunciation, grammar, vocabulary, common idioms, listening, speaking, reading, and writing techniques for the expression of ideas orally and in writing. Introduction to Hispanic culture. Designated sections focus on skills for Spanish speakers. Spanish 101 is equivalent to two years of high school Spanish. CSU/UC

SPAN 101H (C-ID SPAN 100)

Honors Elementary Spanish I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students).

Enhanced and intensive practice and integration of pronunciation, grammar, vocabulary, common idioms, listening, speaking, reading, and writing techniques for the expression of ideas orally and in writing. Enriched introduction of Hispanic culture. Note: Some sections are designated for Spanish speakers. Spanish 101H is equivalent to two years of high school Spanish. CSU/UC

SPAN 102 (C-ID SPAN 110)

Elementary Spanish II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: SPAN 101 or SPAN 101H with a minimum grade of C or two years of high school Spanish with a passing grade. All Cal State and UC universities Spanish programs require a minimum grade of C in Spanish 101 or two years in high school with a passing grade.

A college-level Spanish class focusing on further training in language skills providing avenues for the expression of ideas orally and in writing. Additional study of Hispanic culture. Designated sections focus on skills for Spanish speakers. Spanish 102 is equivalent to the third year of high school Spanish. CSU/UC

SPAN 102H (C-ID SPAN 110)

Honors Elementary Spanish II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: SPAN 101 or SPAN 101H with a minimum grade of C AND A high school or college GPA of 3.0 or above OR two years of high school Spanish with a passing grade. All Cal State and UC universities have the same prerequisites for Spanish 102H.

Further enhanced and intensive training in language skills for the expression of ideas orally and in writing. Additional enriched study of Hispanic culture. Note: Some sections are designated for Spanish speakers. Spanish 102H is equivalent to the third year of high school Spanish. CSU/UC

SPAN 195A

Advanced Conversational Spanish

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: SPAN 102 or SPAN 102H with a minimum grade of C.

Further development of conversational skills. Review of language structures as well as reinforcement of new vocabulary and idioms through discussions of reading selections dealing with historical and current events to deepen appreciation of Hispanic cultures. CSU/UC

SPAN 195B

Advanced Conversational Spanish

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: SPAN 195A with a minimum grade of C.

Continuation of development of conversational skills. Provides avenues for the expression of ideas introduced in literary and current event readings through discussions and class presentations to deepen appreciation of Hispanic cultures. CSU/UC

SPAN 201 (C-ID SPAN 200)

Intermediate Spanish I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: SPAN 102 or SPAN 102H with a minimum grade of C OR three years of high school Spanish with a passing grade. These prerequisites are also required in Cal State and UC Spanish universities.

A college level Spanish class focusing on expansive review of usage and grammar, discussions of interpretive readings, conversation, and composition. CSU/UC

SPAN 201H (C-ID SPAN 200)

Honors Intermediate Spanish I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: Spanish 102 or 102H with a minimum grade of C and a high school or college GPA of 3.0 or above. All four-year public universities, Cal State and University of California Spanish Programs require the same prerequisites for Intermediate Spanish level course.

An enriched exposure of Hispanic history, culture, and literature in a seminar setting. In- depth analysis of grammatical structures. Further use of argumentative oral strategies. Enhanced development of conversation and composition. Independent research by students to use/evaluate library and electronic information sources. CSU/UC

SPAN 202 (C-ID SPAN 210)

Intermediate Spanish II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: SPAN 201 or SPAN 201H with a minimum grade of C OR four years of high school Spanish with a passing grade.

A college-level Spanish class focusing on expansive review of usage and grammar; discussions in Spanish of interpretive reading materials; conversation and composition. CSU/UC

SPAN 202H (C-ID SPAN 210)

Honors Intermediate Spanish II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: SPAN 201 or SPAN 201H with a minimum grade of C AND a high school or college GPA of 3.0 or above OR four-years of high school Spanish with a passing grade.

An enriched exposure of Hispanic history, culture, and literature in a seminar setting. In- depth analysis of grammatical structures. Enhanced development of conversation and composition. Further use of argumentative oral strategies. Independent research by students to use/evaluate library and electronic information sources. CSU/UC

SPAN 212

College Business Spanish

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: SPAN 202 or 202H with a minimum grade of C OR four-years of high school Spanish with a grade of C or better.

A course designed to give intermediate level students a solid foundation in business vocabulary, basic business and cultural concepts, and provide practice of real-life situations necessary to be successful in today's Spanish-speaking business world. The course is designed for students majoring in Spanish, International Studies, and/or International Business. CSU/UC

SPAN 213

College Spanish Composition

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: Spanish 201 with a minimum grade of C OR concurrent enrollment in SPAN 201 or three years of high school Spanish with a passing grade.

Writing of composition through discussions and interpretive readings. CSU/UC

SPECIAL SERVICES (SPEC)

SPEC N44

Reading Development for the Deaf

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Prerequisite: Student must be eligible for DSPS services from Deaf and Hard of Hearing Program and Services.

Reading comprehension development for the deaf or hard of hearing students. Includes assessment of current skills and the development of an individualized program of study with the goal upon completion of enrolling in the college's reading course sequence. Not applicable to associate degree. Open Entry/Open Exit

SPEC N50A

English for the Deaf and Hard of Hearing

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Language function and composition for the deaf or hard of hearing student. Includes assessment of current skills and development of an individualized program of study with the goal of enrolling in the college English course sequence. Student must submit proof of audio-logically verifiable hearing loss. Not applicable to associate degree. Open Entry/Open Exit

SPEC N50B

English for the Deaf and Hard of Hearing

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Mechanics of the English language and composition for the deaf or hard of hearing students as they prepare to place into college level English courses. Includes continuing improvement of English comprehension skills and grammar in increasingly complex sentence structures, writing skills, vocabulary development and disability related issues. Student must submit proof of audio-logically verifiable hearing loss. Not applicable to associate degree. Open Entry/Open Exit

SPEC N84

Employment Preparation

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

A comprehensive course designed to prepare students for the transition from school to employment. Includes identifying appropriate job/career goals, assessing personal strengths, developing skills to obtain employment such as resume writing and interviewing, and utilizing contemporary technologies for securing meaningful employment, retention and advancement. (Pass/No Pass Only). Open Entry/Open Exit

SPEC N91

Computer Assisted Cognitive Learning

Unit(s): 0.5-1.5 Class Hours: 24.0-72.0 Lab total.

Prerequisite: Verified brain impairment.
Fundamentals of Cognitive Retraining is designed for individuals who have sustained an acquired brain impairment and who are experiencing cognitive difficulties. Instruction focuses on improving attention and concentration, perceptual processing skills, and memory. Arranged schedule. (Pass/No Pass Only). Open Entry/Open Exit

SPEC N92

Assistive Computer Technology Instruction

Unit(s): 0.5-2.0 Class Hours: 18.0 Lecture, 24.0 Lab total.

This course is intended for students with disabilities. Emphasis is on mastering appropriate assistive computer technologies and to provide instruction in Windows, Microsoft Office and Internet/E-Mail access. Not applicable to associate degree. (Pass/No Pass Only). Open Entry/Open Exit.

SPEC N94

Intermediate Cognitive Retraining

Unit(s): 0.5-1.5 Class Hours: 24.0-72.0 Lab total.

Prerequisite: Verified brain impairment.
Intermediate Cognitive Retraining is designed for students who have sustained and acquired brain impairment. Instruction focuses on the use of compensatory memory strategies, utilizing critical thinking/ problem solving skills and improving organizational skills. Arranged schedule. May be repeated. (Pass/No Pass Only)

SPEC N95

Cognitive Retraining - Academic Transition

Unit(s): 0.5-1.5 Class Hours: 24.0-72.0 Lab total.

Prerequisite: Verified brain impairment.

Cognitive Retraining - Academic Transition is designed for students who have sustained an acquired brain impairment. Instruction focuses on utilizing and applying cognitive skills in the areas of reading, written language, and study skills strategies to achieve success in an academic program. Arranged schedule. May be repeated. (Pass/No Pass Only)

SPEECH LANGUAGE PATHOLOGY ASSISTANT (SLPA)

SLPA 118

Introduction to Speech-Language Pathology Assisting

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Overview of the field of speech-language pathology, professional standards, legal and ethical issues, and scope of responsibilities of the speech-language pathologist and the speech-language pathology assistant in health care and educational settings. CSU

SLPA 119

Speech-Language and Hearing Development Across the Life Span

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of normal speech, hearing, and language development across the life span. Topics will include differentiation of normal from disordered communication and communication development in bilingual populations. CSU/UC

SLPA 120

Speech-Language Pathology Clinical Management and Procedures

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Prerequisite: SLPA 118 with a minimum grade of C.

Organizational and functional skills required in the speech-language pathology workplace. Includes interdisciplinary and supervisory relationships, client and public interaction, safety issues, technical writing, data collection, record keeping, and computer applications. CSU

SLPA 150

Observation of Speech-Language Pathology Clinical Practices

Unit(s): 0.5 Class Hours: 28.0 Lab total.

Prerequisite: SLPA 118 with a minimum grade of C AND concurrent enrollment in SLPA 160.

Beginning clinical observation of practices and procedures required in speech-language pathology. Observation sites will be in both educational and medical settings. CSU

SLPA 160

Introduction to Communicative Disorders and Treatment

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An overview of communication disorders, including classification, assessment and remediation of speech, language, swallowing, and hearing disorders in children and adults. Role of speech-language pathologist and audiologist in educational and medical settings. CSU/UC

SLPA 170

Introduction to Phonetics

Formerly: CMST 170, Introduction to Phonetics

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of the articulatory foundations of the description and classification of speech sounds. Introduces the International Phonetic Alphabet (IPA), physiological properties of the speech- producing mechanism, and methods of transcription. Emphasis will be on American English along with comparison to the sound systems of other languages. CSU

SLPA 180

Speech-Language Pathology Screening Processes and Intervention Procedures

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: SLPA 120 and SLPA 150 and SLPA 160 with a minimum grade of C.

Screening tools, processes, and intervention procedures used for clients with communication disorders. Administration of screening tests and completion of protocols. Equipment utilized in therapeutic treatment. CSU

SLPA 190

Speech-Language Pathology Assistant Clinical Fieldwork I

Unit(s): 2.0 Class Hours: 4.5 Lecture, 108.0 Lab total.

Prerequisite: SLPA 120 and SLPA 150 and SLPA 160 with a minimum grade of C AND application to Department Coordinator required semester prior to enrollment; current negative TB clearance; current CPR and First Aid Certification; fingerprinting and background check may be required

Corequisite: SLPA 180.

Beginning application of supervised clinical practice procedures as required of a speech- language pathology assistant in an educational or clinical setting. CSU

SLPA 200

Adult and Geriatric Communication Disorders

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Prerequisite: SLPA 160 with a minimum grade of C.

Speech, language, and hearing disorders experienced by the adult and geriatric populations. Assessment tools and treatment strategies used to treat acquired disorders such as adult aphasia, dysarthria, and hearing loss. CSU

SLPA 250

Speech-Language Pathology Assistant Clinical Fieldwork II

Unit(s): 2.0 Class Hours: 4.5 Lecture, 108.0 Lab total.

Prerequisite: SLPA 180 and SLPA 190 with a minimum grade of C AND application to Department Coordinator required semester prior to enrollment; current negative TB clearance; current CPR and First Aid Certification; fingerprinting and background check may be required.

Advanced application of clinical practice procedures in a clinical or educational setting by the speech-language pathology assistant under the supervision of a speech-language pathologist. CSU

STUDY SKILLS (STDY)

STDY 101

College Study Skills

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A course designed to teach effective college study skills while also helping students create positive academic and lifelong learning habits. Topics include time management, exam preparation, lecture notetaking, memorization, test taking strategies, stress management, and exam preparation. CSU

STDY 109

College Learning Skills

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides effective success strategies to enhance student self-development, academic, and lifelong learning skills for the college student. The techniques include values, goal-setting, dealing with money, stress management, diversity, motivation, health, and time-management. Students learn personal growth methods and develop strategies to effectively deal with issues to ensure personal, educational, and career success. CSU

TV/VIDEO COMMUNICATIONS (TELV)

TELV 009A

TV/Video Communications Laboratory

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Corequisite: TELV 110 or TELV 112 or TELV 115A or TELV 115B or TELV 130 or TELV 150 or TELV 152.

Sign-in/out supervised work on beginning television projects/ production assigned in a 100 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TELV 009B

TV/Video Communications Laboratory

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: TELV 009A with a minimum grade of C.

Corequisite: TELV 110 or TELV 112 or TELV 115A or TELV 115B or TELV 130 or TELV 150 or TELV 152.

Sign-in/out supervised work on intermediate television projects/ production assigned in a 100 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TELV 009C

TV/Video Communications Laboratory

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: TELV 009B with a minimum grade of C.

Corequisite: TELV 110 or TELV 112 or TELV 115A or TELV 115B or TELV 130 or TELV 150 or TELV 152.

Sign-in/out supervised work on advanced television projects/ production assigned in a 100 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TELV 010A

TV/Video Communications Advanced Laboratory I

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on beginning television projects/ production assigned in a 200 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TELV 010B

TV/Video Communications Advanced Laboratory II

Unit(s): 0.5 Class Hours: 54.0 Lecture, 27.0 Lab total.

Prerequisite: TELV 010A with a minimum grade of C.

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on advanced beginning television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TELV 010C

TV/Video Communications Advanced Laboratory III

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: TELV 010B with a minimum grade of C.

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on intermediate television projects/ production assigned in a 200 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TELV 010D

TV/Video Communications Advanced Laboratory IV

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Prerequisite: TELV 010C with a minimum grade of C.

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on advanced television projects/ production assigned in a 200 level TV/Video Communications course. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

TELV 131

Beginning Broadcast News Workshop

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Group Instruction for beginners in news writing, reporting, interviewing, and on-camera techniques for appearing on a student-produced cable newscast. Basic training also will include in-studio production techniques. CSU

TELV 132

Intermediate Broadcast News Workshop

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: TELV 130 or TELV 131 with a minimum grade of C.

Group instruction for intermediate level students in the writing and preparation of news, entertainment, and sports segments for a weekly TV newscast. Participation in studio production work and on-camera appearance will also be emphasized. CSU

TELV 133

Advanced Broadcast News Workshop

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: TELV 132 with a minimum grade of C.

Group instruction for advanced level students in writing and preparation of news, entertainment, and sports segments for a weekly TV newscast. Emphasis placed on advanced reporting, camera, and editing techniques as well as producing and directing the news show. CSU

TELV 190

Introduction to ProTools

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Fundamental features and applications of ProTools audio software used in post- production for television, film and music. Orientation to functions, user interface and actual operation of digital audio workstation. Techniques and aesthetics associated with creation of well-mixed soundtracks are addressed. Hands-on practice with digital recording and editing of soundtracks. (Same as Music 190.) CSU

TELV 298

TV/Video Communications Practicum/ Internship

Unit(s): 3.0 Class Hours: 9.0 Lecture, 135.0 Lab total.

Supervised field work in broadcast writing, announcing, journalism, editing or production at professional sites. Skills assessed before placement to match abilities with employer needs. Concurrent enrollment or completion of one TV/Video Communications production class recommended. CSU

THEATRE ARTS (THEA)

THEA 100 (C-ID THTR 111)

Introduction to Theatre

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the art and concepts of theatre through a study of modern and historical theories of dramatic structure, playwriting, directing, design, and acting. Attendance at live theatre required. CSU/UC

THEA 105 (C-ID THTR 113)

Theatre History 1

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

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. CSU/UC

THEA 110 (C-ID THTR 151)

Acting Fundamentals

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

A study of acting involving the development of acting techniques, styles, and disciplines. Provides theory and practical experience with varied characterizations. Emphasizes individual growth and acquired skills necessary to the acting craft. A combination of THEA 110 and THEA 111 and THEA 113 may be taken a maximum of four enrollments. CSU/UC

THEA 111 (C-ID THTR 152)

Intermediate Acting

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Prerequisite: THEA 110 with a minimum grade of C.

Further study in the art of acting for the stage, investigating in-depth character study, role portrayal, special problems, and personal technique. Acting skills developed through use of exercises, monologues, and scenes from contemporary theatre. A combination of THEA 110 and THEA 111 and THEA 113 may be taken a maximum of four enrollments. CSU/UC

THEA 113

Acting for the Camera

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Techniques and disciplines of acting as applied to film and television production. Opportunity to practice and perform with emphasis on developing talents and skills required in acting for the screen (Same as DM 142). A combination of THEA 110 and THEA 111 and THEA 113 may be taken a maximum of four enrollments. CSU/UC

THEA 114

Acting for the Camera II

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: THEA 113 with a minimum grade of C.

An intermediate and immersive on-camera experience in which the student will have opportunities to practice skills and techniques in several styles of camera production: movie/ TV narrative drama, comedy, and reality TV. The material from these performances is edited, screened, and discussed. CSU/UC

THEA 118

Fundamentals of Scene Study

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

A continued study for the beginning actor in the preparation and presentation of scenes from modern comedies, the plays of William Shakespeare, and plays from influential playwrights such as Anton Chekov and Henrik Ibsen. Students prepare scenes with partners for performance and critique. A combination of THEA 198 and THEA 118 and THEA 110 may be taken a maximum of four enrollments. CSU/UC

THEA 120

Musical Theatre History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course explores the history of the uniquely American art form that is Musical Theatre. From its early development in the colonial period to the present time. Emphasis will be placed on the chronological examination of various musical theatre productions. Students will learn how the composers, librettists, lyricists, choreographers, directors and designers contributed to the formation and the popularity of musical theatre as it exists today. CSU/UC

THEA 123

Introduction to Drama and Acting

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to acting and dramatic literature that includes analysis of plays, dramatic structure, and performance criticism. This course explores the history and development of acting styles and methodologies specific to the major historical periods of drama in which they were created. Intended to enhance imagination and creativity and emphasize intellectual growth through the exploration of the cultural significance of drama and performance. CSU/UC

THEA 130

Lighting Design

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Basic techniques of lighting design for entertainment. Emphasis is placed on the design process, technical and artistic choices, and the development of the practical skills required of an entertainment lighting designer. CSU/UC

THEA 131 (C-ID THTR 171)

Stagecraft

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

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, and stage management. CSU/UC

THEA 132 (C-ID THTR 175)

Stage Makeup

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Basic techniques and artistry of stage makeup and its relation to the total production. Covers history, aesthetics and design theory, color theory, materials, and application procedures for varied characterizations. Practical application of learned skills are applied to departmental productions. CSU/UC

THEA 133 (C-ID THTR 173)

Lighting Fundamentals

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Theory and practices of lighting including control systems and instruments as well as the techniques for proper installation, operation, maintenance, and safety. (same as DM 260) CSU/UC

THEA 135 (C-ID THTR 192)

Technical Production

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Supervised instruction and practical experience in backstage production responsibilities including any of the following: stage management, scenery construction and movement, properties, costume, lighting, sound, and running crews. CSU/UC

THEA 136 (C-ID THTR 174)

Fundamentals of Costume Design

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

The study of costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. (Same as FDM 136) CSU/UC

THEA 137

Costume Design and History

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores the many aspects of costume design, including the breakdown of a script, artistic rendering of the literature, development of themes and design concepts, research sources, examination of the social and economic mores that govern dress, and the history of dress. Students will analyze, research, and design two plays to present to the class. The course will include film and theatre industry standards in the area of costume design. A combination of may be taken a maximum of four enrollments. CSU/UC

THEA 138

Costume Periods and Styles

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the changes in dress from ancient times to the present. Social and political influences, as well as the historical accuracy of period dress, are considered relative to the practical needs of costuming for stage, film, and television. A combination of may be taken a maximum of four enrollments. CSU/UC

THEA 140A

Theatre Performance

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

An introduction to theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students learn the process of presenting a role on stage. Prepares the student for Theatre Performance 140B. CSU/UC

THEA 140B

Theatre Performance II

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 140A with a minimum grade of C.

Continued study in theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students perfect the process of presenting a role on stage. Theatre Arts 140B is a continuation and refinement of the work begun during Theatre Arts 140A. CSU/UC

THEA 140C

Theatre Performance III

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 140B with a minimum grade of C.

Provides the continuing theatre performance student opportunity to concentrate on more advanced acting methods and development of technique. Emphasizes the development of the individual actor's performance style connecting the voice and body with the emotional life of a character. CSU/UC

THEA 140D

Theatre Performance IV

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 140C with a minimum grade of C.

Continuing study of acting technique including more complicated methodology and advanced script material. Emphasizes the combination of the individual actor's performance style with the demands of the professional theatre arena. CSU/UC

THEA 150 (C-ID THTR 191, C-ID THTR 192)

Theatre Production

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

Prerequisite: Audition/Interview.

Practical experience in performance production or technical production culminating in a series of public performances. All actors must audition and be cast prior to enrolling. All technicians must obtain instructor approval prior to enrolling. CSU/UC

THEA 150A (C-ID THTR 191)

Rehearsal and Performance in Production

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

Prerequisite: Audition.

Practical experience in performance production culminating in a series of public performances. All actors must audition and be cast prior to enrolling. A combination of may be taken a maximum of four enrollments. CSU/UC

THEA 150B (C-ID THTR 192)

Technical Theatre in Production

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, scenery construction, properties, costuming, lighting, or sound. This course culminates into a series of public performances. All student technicians must obtain instructor approval prior to enrolling. CSU/UC

THEA 151 (C-ID THTR 191)

Showcase I

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An introduction to theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students learn the process of presenting a role on stage. Prepares the student for Showcase II. A combination of THEA 151, 171, 172 and 173 may be taken a maximum of four enrollments. CSU/UC

THEA 152 (C-ID THTR 191)

Tour Ensemble

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An introduction to theatre performance emphasizing acting techniques as applied to performing a role in multiple venues. CSU/UC

THEA 153

Introduction to Directing

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

The study and application of directing theory, process, and technique which will culminate in a student-directed project production for public performance. Included are the fundamentals of script analysis, designer collaboration, character development, staging, actor coaching, and presenting. CSU/UC

THEA 154 (C-ID THTR 191)

Performance Ensemble

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

A study of the standards and expectations for an actor in auditions, rehearsals, and performances of an ensemble production. Students desiring an acting role must audition. A combination of THEA 154, 161, 162, and 164 may be taken a maximum of four enrollments. CSU/UC

THEA 155 (C-ID THTR 191)

Children's Theatre Ensemble

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

Intensive rehearsal and performance production experience culminating in the presentation of a live production for young audiences. CSU/UC

THEA 156

Readers' Theatre Workshop

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

A study of acting involving the development of techniques, styles, and theories specific to performing in front of a live audience. Provides the student with extensive practical rehearsal experience with varied characters, leading to workshop production. CSU/UC

THEA 161

Tour Ensemble II

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 152 with a minimum grade of C.

Continued study in theatre performance emphasizing acting techniques as applied to performing a role in a touring company. Students perfect the process of presenting a role in multiple venues. A combination of Theatre Arts 154, 161, 162, and 163 may be taken a maximum of four enrollments. CSU/UC

THEA 162

Tour Ensemble III

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

THEA 161 with a minimum grade of C.

Provides the continuing theatre performance student opportunity to concentrate on more advanced acting methods and development of technique in playscripts for a touring ensemble. Emphasizes the development of the individual actor's performance style connecting the voice and body with the emotional life of a character. A combination of Theatre Arts 154, 161, 162, and 163 may be taken a maximum of four enrollments. CSU/UC

THEA 163

Tour Ensemble IV

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 162 with a minimum grade of C.

Continuing study of acting technique including more complicated methodology and advanced script material focusing on touring ensembles. Emphasizes the combination of the individual actor's performance style with the demands of the professional touring arena. A combination of Theatre Arts 154, 161, 162, and 163 may be taken a maximum of four enrollments. CSU/UC

THEA 165

Introduction to Entertainment Lighting

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Recommended Preparation: concurrent enrollment in THEA 165L.

The study of the various entertainment lighting practices. Course will focus on emerging technologies in the entertainment industry and best practices in applications. Basic skills in control, usage, and content preparation. CSU

THEA 165L

Fundamentals of Programming for Intelligent Lighting Lab

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Recommended Preparation: concurrent enrollment in THEA 165.

Develop the programming skills to complete a show set up, control fixture characteristics, create and record cues, and transfer between programming and show control. Emphasis will be placed on developing speed and accuracy in these basic skills. CSU

THEA 166

Intermediate Programming

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Corequisite: THEA 166L.

Further development of the control and programming skills used in the entertainment lighting industry. Multiple control consoles will be introduced. CSU

THEA 166L

Intermediate Programming Lab

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: THEA 166.

Practical application of the terms, concepts, and practices in the control and programming of automated lighting equipment. Emphasis is placed on intermediate and advanced programming techniques/ skills while increasing speed and accuracy. CSU

THEA 167

Setup for Intelligent Lighting

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Study of the practical considerations for using intelligent lighting equipment. Included topics are safety precautions, setup, and operational procedures, control panel functions, basic service, and maintenance techniques. CSU

THEA 168A

Computer Applications for Entertainment Technology

Unit(s): 2.5 Class Hours: 36.0 Lecture, 36.0 Lab total.

Study of varied software applications that assist in the creation, management, visualization, and virtualization of entertainment projects. CSU

THEA 169

Cooperative Work Experience- Entertainment

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the entertainment industry so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un- paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

THEA 170

Entertainment Technology Internship

Unit(s): 1.0 Class Hours: 9.0 Lecture, 36 Lab total.

Supervised field work in one or more areas of backstage technologies including lighting, sound, and stagecraft. Skills are assessed before placement to match abilities with job requirements. Grade: Pass/No Pass only. Open Entry/Open Exit. CSU

THEA 171

Showcase II

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 151 with a minimum grade of C.

Continued study in theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students perfect the process of presenting a role on stage. A combination of Theatre Arts 151, 171, 172, and 173 may be taken a maximum of four enrollments. CSU/UC

THEA 172

Showcase III

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 171 with a minimum grade of C.

Provides the continuing theatre performance student opportunity to concentrate on more advanced acting methods and development of technique. Emphasizes the development of the individual actor's performance style connecting the voice and body with the emotional life of a character. A combination of Theatre Arts 151, 171, 172, and 173 may be taken a maximum of four enrollments. CSU/UC

THEA 173

Showcase IV

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 172 with a minimum grade of C.

Continuing study of acting technique including more complicated methodology and advanced script material. Emphasizes the combination of the individual actor's performance style with the demands of the professional theatre arena. A combination of Theatre Arts 151, 171, 172, and 173 may be taken a maximum of four enrollments. CSU/UC

THEA 177

Principles of Playwriting

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the elements of writing a play for the stage emphasizing dramatic structure, dramatic action, relationship between dialogue and action, setting, theme and point of view. Students will be assigned writing exercises that culminate in a one-act play. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU

THEA 178

Musical Theatre Techniques

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course explores the development of the beginning fundamentals of acting, singing and movement for musical theatre through exercises, auditions, solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

THEA 179

Musical Theatre Workshop

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: Audition or consent from instructor.

Development and exploration of musical theatre skills. Students will become proficient musical theatre artists through theatrical exercises, audition and dance techniques and solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

THEA 180

Intermediate Musical Theatre Techniques

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 178 with a minimum grade of C.

This course explores intermediate level techniques of acting, singing and movement for musical theatre through theatrical exercises, auditions, solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

THEA 181

Intermediate Musical Theatre Workshop

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: THEA 179 with a minimum grade of C.

Intermediate level development and exploration of musical theatre skills. Students will become proficient musical theatre artists through theatrical exercises, audition and dance techniques and solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

THEA 186

Voice for the Actor

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An academic study and practical application of the efficient and effective use of the speaking voice, particularly in meeting the unique demands of acting for the stage. Focus will be placed on exercises designed to identify and correct breathing problems, diction problems, and to create conscious control of speech function. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

THEA 190

Improvisation for Stage and Screen

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Exploration of the principles and techniques of improvisational acting designed to increase the actor's creativity, problem solving, and performance skills. This course also develops student awareness of the importance of the cooperative dynamics of theatre, television and film. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

THEA 198

Topics

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Topics of special interest offered to meet the needs of theatre arts students. CSU

THEA 250

Advanced Theatre Production

Unit(s): 2.0 Class Hours: 18.0 Lecture, 72.0 Lab total.

Prerequisite: THEA 150A with a minimum grade of C.

Practical experience performing an advanced level role in a series of public performances. CSU/UC

THEA 255

Motion Picture Performance Production

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: Audition.

Practical experience in performance production culminating in a fully produced feature film screened to the public. The final movie presentation becomes the basis for developing an actor reel. Students desiring an acting role must audition. CSU/UC

THEA 256

Intermediate Motion Picture Performance Production

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: THEA 255 with a minimum grade of C.

Intermediate level practical experience course in production culminating in a fully produced feature film screened to the public. The final movie presentation becomes the basis for developing an actor reel. Students desiring an acting role must audition. CSU/UC

THEA 257

Motion Picture Performance Production III

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: THEA 256 with a minimum grade of C.

Provides the continuing performance student opportunity to concentrate on more advanced acting methods and development of technique. Emphasizes the development of the individual actor's performance style connecting the emotional life of a character to technical delivery on-screen. CSU/UC

THEA 258

Motion Picture Performance Production IV

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: THEA 257 with a minimum grade of C.

Continuing study of on-camera acting technique including more complicated methodology and advanced script material. Emphasizes the combination of the individual actor's performance style with the demands of working on a professional set. CSU/UC

VIETNAMESE (VIET)

VIET 101

Elementary Vietnamese I

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

A college level Vietnamese class focusing on pronunciation and grammar, basic vocabulary, common idioms, listening, speaking, reading, and writing techniques to provide avenues for the expression of ideas orally and in writing. Introduction to Vietnamese culture. Some sections designated for native Vietnamese speakers. Vietnamese 101 is equivalent to two years of high school Vietnamese. CSU/UC

VIET 102

Elementary Vietnamese II

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Prerequisite: VIET 101 with a minimum grade of C.

A college level Vietnamese course focusing on further training in pronunciation and grammar, more extensive vocabulary development, conversation, and composition. Supplementary cultural readings. Vietnamese 102 is equivalent to the third year of high school Vietnamese. CSU/UC

WELDING (WELD)

WELD 101

Introduction to Welding

Formerly: Weld 108, Oxyacetylene-Arc Welding

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This is a basic course designed to introduce students to shop safety, the proper use of tools and basic equipment, and basic fundamentals through the introduction of various welding processes currently used in the welding and metal fabrication industry. Processes will include Oxy-fuel cutting, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). CSU

WELD 111

Welding Lab Skills

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Prerequisite: WELD 240 with a minimum grade of C.

This class is designed for students to enhance their welding skills. Students will be able to practice open root welding, along with preparation for welding practical exams. This lab will focus on material preparation and welding techniques. Students will receive two units for 108 hours of participation. CSU

WELD 125

Intermediate Electric Arc Welding

Formerly: Weld 125A, Intermediate Arc Welding Level I

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 101 with a minimum grade of C.

This is an intermediate course designed for students who want to progress in their welding skills through the application of Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Oxy-fuel Cutting. The course will emphasize proficiency in welding in the flat, horizontal, and vertical positions. Continuing emphasis on safety, theory, and practical skill development. CSU

WELD 139A

Inert Gas Welding Level I

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: WELD 108 with a minimum grade of C.

This course will introduce the student to gas tungsten arc welding (GTAW) and metal inert gas welding (MIG) of aluminum, mild steel and stainless steel. CSU

WELD 153

Math/Blueprint Reading for Welders

Formerly: WELD 153B, Math/Blueprint Reading for Welders

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course focuses on math used in welding and blueprint reading. Emphasis will be placed on welding blueprint symbols along with industry mathematics. The student will be able to read and interpret shop, field drawings, and blueprints related to the welding industry. CSU

WELD 153A

Math/Blue Print Reading for Welders

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This class is designed to introduce the welding student to math and blue print reading and their applications for welders related to the welding industry. Emphasis will be placed on the practical problems in mathematic (for welders) measuring, instruments, area, volume, fractions, decimals and metric system. This course will allow the student to read and interpret shop and field drawings and prints related to the welding industry. CSU

WELD 155

Metal Fabrication

Formerly: Weld 155A, Beginning Metal Fabrication

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 153 and WELD 240 with a minimum grade of C.

This course is designed for students with prior welding experience. The course will provide students with a general understanding of the fundamental methods of welding fabrication used in industry. Students will become familiar with standard mill shapes and materials, jigs and fixtures, methods of layout and fitting, preparation and qualification of welding procedures and welding sequence, cost analysis, and cutting and fastening techniques. This course is strongly recommended for those entering the fields of metal fabrication, quality assurance, inspection, supervision, and engineering of welded products. CSU

WELD 156A

Beginning Robotic Welding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: WELD 108 with a minimum grade of C.

Corequisite: WELD 157A or MNFG 157A

The course is a basic programming course that teaches students how to safely manipulate the robot through proper use of the robotic controller and Teach Pendant. This course also introduces the student to the gas metal and flux cored arc welding process. Emphasis is placed on safe operating practices, handling and storage of compressed gases, process principles, component identification, various welding techniques, and base and filler metal identification. This course is an introduction to the beginning robotic/laser technology. (Same as MNFG 156A). CSU

WELD 156B

Intermediate Robotic Welding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: WELD 156A or MNFG 156A and WELD 157A or MNFG 157A with a minimum grade of C.

Corequisite: WELD 157B or MNFG 157B

The robotic welding course teaches students how to safely manipulate the robot through proper use of the robotic controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to input welding procedures, jog frames, circular moves, weaving, copy-delete-commands, six point tool center and other activities related to the robotic welding process. (Same as MNFG 156B). CSU

WELD 156C

Advanced Robotic Welding

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Prerequisite: WELD 156B or MNFG 156B with a minimum grade of C.

Corequisite: WELD 157C or MNFG 157C

The Advanced Robotic Welding course teaches students how to safely manipulate the robot through proper use of the robot controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to create programs in robotic welding safety, TPP Management, USER Frames, coordinated motion,TAST,TAST-RPM, position registers & offsets, touch & sensing and activities relating to the robotic welding process. (Same as MNFG 156C) CSU

WELD 157A

Basic Robotic Programming

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: WELD 108 with a minimum grade of C.

Corequisite: WELD 156A or MNFG 156A

This is a basic programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, linear movements, coordinate systems, Teach Pendant programming, and software/hardware integration. (Same as MNFG 157A) CSU

WELD 157B

Intermediate Robotic Programming

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: WELD 156A or MNFG 156A and WELD 157A or MNFG 157A with a minimum grade of C.

Corequisite: WELD 156B or MNFG 156B

This course is a programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, circular movements, robot set-up, advanced Teach Pendant programming and functions, and auxiliary hardware. (Same as MNFG 157B) CSU

WELD 157C

Advanced Robotic Programming Welding

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: WELD 156B or MNFG 156B and WELD 157B or MNFG 157B with a minimum grade of C.

Corequisite: WELD 156C or MNFG 156C

This is an advanced programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, logic commands, and coordinate systems, advanced Teach Pendant programming, network integration, simulations, and software/hardware integration. (Same as MNFG 157C) CSU

WELD 160

Introduction to Process Validation and Verification of Laser Welding Process: Level 1

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This course is designed to introduce students to laser welding validation and the development of manufacturing capabilities using fiber laser welding equipment. CSU

WELD 161

Planning Process Validation and Verification of Laser Welding Process: Level 2

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: WELD 160 with a minimum grade of C.

This course is designed to introduce students to laser welding process focused on three main activities: Installation Qualification Plan (IQ), Operational Qualification Plan (OQ), and Performance Qualification Plan (PQ) per the MVP. CSU

WELD 162

Executing Process Validation and Verification of Laser Welding Process: Level 3

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: WELD 161 with a minimum grade of C.

This course is designed to perform validation activities with laser welding processes focused on three main activities: Installation Qualification Report (IQ), Operational Qualification Report (OQ), and Performance Qualification Report (PQ) per the MVP. CSU

WELD 177

Welding Metallurgy

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to introduce students to the field of metallurgy and familiarize the student with production, use, and testing of metals and other materials. This course reviews the relationships between the properties of metals/alloys as well as other materials and how they relate to design and manufacturing industries. CSU

WELD 181

Pipe Welding Fundamentals

Formerly: Weld 154A, Beginning Pipe Fundamentals

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 101 with a minimum grade of C

This course is an introduction class to pipe welding with the Shielded Metal Arc Welding (SMAW) process. Students will focus on safety, theory, preparation, and welding. Emphasis will be placed on welding in the flat (1G) and horizontal (2G) positions using various size pipe with E6010 and E7018 electrodes. CSU

WELD 182

Intermediate Pipe Welding

Formerly: Weld 154B, Intermediate Pipe Welding

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 181 with a minimum grade of C.

This course is an intermediate class in pipe welding. Students will focus on safety, theory, pipe preparation, and welding. Emphasis will be placed on welding in the fixed horizontal (5G) and fixed 45 degree (6G) positions on various size pipe, using the Shielded Metal Arc Welding (SMAW) process with E6010 and E7018 electrodes. CSU

WELD 198

Welding 198 Topics

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Prerequisite: Varies according to topic.

Specialized courses on topics in welding technology. Not offered every year. CSU

WELD 225

Advanced Electric Arc Welding

Formerly: WELD 129A, Advanced Arc Welding Level I

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 240 with a minimum grade of C.

This is an advanced course designed to improve and master the student's previously acquired welding skills in Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Oxy-fuel Cutting. The course will emphasize proficiency of welding in the vertical and overhead positions with continued emphasis on safety, theory, and practical skill development. CSU

WELD 232

Advanced Gas Tungsten Arc Welding

Formerly: Weld 139C, Inert Gas Welding Level III

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 240 with a minimum grade of C.

This is an advanced welding course using the Gas Tungsten Arc Welding (GTAW) process. This course is intended to challenge the students with welding out of position on various alloys. The students will weld in the horizontal (2F/G), vertical (3F/G), and overhead (4F/G) welding positions on plate and pipe. This class is designed to prepare students for the certification tests in structural, pipe, and aerospace industries. CSU

WELD 240

Structural Welding SMAW/FCAW

Formerly: WELD 140A, Welding Certification Training Level I

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 225 with a minimum grade of C.

This is an advanced course designed to provide students with specialized instruction in preparation for the Los Angeles Department of Building and Safety (LADBS) welder performance examination and/or the welder performance examination in accordance with the American Welding Society (AWS) D1.1 Structural Steel Code. Simulated examination plates will be issued to students, who will have to complete them in vertical (3G) and overhead (4G) positions, in order to evaluate their progress. Upon completion of the class, students should be prepared to schedule, take, and pass the welder performance examination for structural steel welding (AWS: D1.1). CSU

WELD 244

Welding Certification D1.1 Code Clinic

Formerly: Weld 141A, Welding Certification Exam Preparation Level I

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course is designed for welding students looking to achieve their certification in the written portion of the American Welding Society (AWS) D1.1 Structural Steel code book. Emphasis will be focused on understanding and navigating the D1.1 Structural Steel code book. Students will cover prequalified/qualified design, prequalified base/filler material, procedure/welder qualifications, fabrication essentials, and testing as specified by AWS D1.1 Structural Code specifications leading to Los Angeles City or AWS welding certifications. CSU

WELD 282

Advanced Pipe Welding

Formerly: Weld 154C, Advanced Pipe Welding

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 182 with a minimum grade of C.

This advanced course prepares students to pass their inclined (6G) certification test. Students will use AWS and American Petroleum Institute (API) standard 1104 procedures.

Emphasis will be on open root groove welds on pipe using the Shielded Metal Arc Welding (SMAW). Students will use E6010 and E7018 electrodes along with Gas Tungsten Arc Welding (GTAW). CSU

WOMEN'S STUDIES (WMNS)

WMNS 101

Introduction to Women's Studies

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A multicultural survey of social trends, issues, opportunities, and topics of special interest to women. Discussion includes sex, sex role stereotyping, family problems, work, law, gender equity, physical and mental health, feminism, rape, and women in arts, sciences, history, and business. CSU/UC

WMNS 102

Women in America: Work, Family, Self

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of women's roles in America. Emphasis on employment, family structures, and personal development. Topics include: historical patterns, socialization, opportunities, sexism, identity, growth, law, unionization, sexual harassment, media influence, family pressures, child care, guilt, stress. CSU/UC

SANTA ANA COLLEGE
School of Continuing Education

Santa Ana College School of Continuing Education Office
Centennial Education Center
2900 West Edinger Avenue, Santa Ana, CA 92704
714-241-5700

Santa Ana College School of Continuing Education Mission Statement

The Santa Ana College School of Continuing Education is a responsive community leader dedicated to adult student success through innovative educational programs and services. The School of Continuing Education prepares students to transition to college, improve language and workforce skills, increase civic involvement, and promote lifelong learning.

The Centennial Education Center (CEC) office is located at the corner of Fairview and Edinger, Santa Ana, near convenient bus stops. Office Hours: Monday through Thursday, 8:00 am–8:45 pm, Friday, 8:00 am–12:45 pm, Saturday, 8:00 am–11:45 am.

The Centennial Child Development Center provides services to Santa Ana College School of Continuing Education students' children between the ages of 2 and 5 based on space availability. Fees are based on a sliding scale and children need to be enrolled on a regular basis.

Centennial Education Center offers a wide range of classes. Because classes are offered on an open entry/open exit basis, students may register at any time throughout the year.

Student Outreach provides admissions information, ensures access to and knowledge of campus resources, and actively promotes student services offered.

English as a Second Language (ESL) classes at CEC provide a vital service to students who have come to the United States from all over the world. Classes cover a wide range of instruction in beginning to advanced English, pronunciation, citizenship, conversation, writing, English for work, and college preparation. Students develop survival skills, learn about customs, and American culture, as well as, acquire language skills necessary for school, employment and success in their daily lives.

The English Language Lab provides opportunities for adult learners to use language learning computer software to practice English. Civics instruction is provided to enhance awareness of learners' community. One-on-one, small-group, and technology-based instruction are offered based on individual needs. Instructors help learners create individual learning plans and set educational goals.

Instructors in the Pronunciation Center help students build their fluency in pronunciation through a variety methods to include role play, pair and group work, and presentations. Students will learn about sound patterns and sound inventory, stress, intonation, and others. Materials are provided in class.

The Adult Basic Education Program (ABE) is designed to assist students in strengthening their skills in reading, writing, mathematics, English usage and grammar. Fifteen (15) elective credits may be earned by students who pass the three exit exams. Once the ABE classes have been successfully completed and a certificate awarded, the student is eligible to enter the Adult High School Subjects Diploma program (ASE) GED preparation or college credit courses. The ABE program is also appropriate for students who want to become more employable.

The Adult High School Diploma Program is designed to accommodate adults with varied responsibilities, backgrounds, and needs who want to earn a high school diploma. Individualized instruction is provided so that students may take classes that fit their personal schedules, thus enabling them to work and complete credits at their own pace. Courses offered include: English fundamentals, reading and vocabulary skills, mathematics, science, United States history, and American government. Classes in GED preparation, including practice testing, are also offered in English and Spanish at CEC and REC. Weekend classes are offered at CEC for students who can only attend one day a week. Upon completing their GED studies, students register online at **www.ged.com** to take their exam(s). The nearest testing site is:

Corporate Training Institute
Rancho Santiago Community College District
2323 N. Broadway, Suite 315
Santa Ana, CA 92706

School of Continuing Education DSPS seeks to meet the needs of adults with disabilities. Accommodations and support services are provided, after students complete a DSPS application, present verification of a disability and complete an intake appointment.

The Vocational Training Programs are designed to prepare students with the necessary skills needed to succeed in today's competitive workforce. Training focuses on various skills leading to the attainment of certificates in general office, executive assistant, computer repairs, childcare licensing, nursing aides, orderlies, attendants, and customer service. Students engage in teacher- facilitated instruction as well as independent laboratory instruction where they can learn at their own pace.

Santa Ana College School of Continuing Education
INSTRUCTIONAL CALENDAR 2020-2021

FALL SEMESTER 2020

August 17-21	Faculty Projects
August 24	INSTRUCTION BEGINS
September 7	Labor Day – Holiday
November 11	Veterans Day – Holiday
November 23-28	Thanksgiving – Holiday
December 19	INSTRUCTION ENDS
December 21-January 8	Holiday Break

SPRING SEMESTER 2021

January 8, 11, 12	Faculty Projects
January 13	INSTRUCTION BEGINS
January 18	Martin Luther King's Birthday – Holiday
February 12	Lincoln's Birthday – Holiday
February 15	President's Day – Holiday
March 31	Cesar Chavez Day (Observed)
April 5 – 10	Spring Recess
May 28	INSTRUCTION ENDS
May 28	High School Commencement
May 31	Memorial Day – Holiday

SUMMER SESSION 2021

June 1	INSTRUCTION BEGINS
July 5	Independence Day – Holiday
August 7	INSTRUCTION ENDS

AUGUST 2020

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SEPTEMBER 2020

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OCTOBER 2020

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NOVEMBER 2020

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AUGUST 2021

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GOALS

Recognizing that learning is a lifelong process, the School of Continuing Education offers a variety of courses and programs to meet basic educational goals of adult learners. Programs and services offered by the School of Continuing Education are designed to help adults meet and carry out their immediate social, civic, and economic responsibilities. Continuing Education promotes lifelong learning as a vehicle to earn a high school diploma or GED, improve English skills, prepare for higher education, prepare for citizenship, learn new job skills, and become productive, active participants in American society.

COUNSELING

1. Provides counseling and guidance services to students.
2. Provides educational assessment services.
3. Provides orientation to a variety of programs and services.
4. Offers career vocational guidance.
5. Offers referrals to community agencies.
6. Provides personal counseling.

PROGRAM OBJECTIVES

Adult Basic Education

Teaches the basic academic and life skills necessary for success in today's world.

1. Provides students with a strong educational foundation that can be used as a basis for employment preparation, entrance into high school subjects, GED preparation, and college and vocational programs.

Adult High School Diploma Program

Enables students to obtain a high school diploma.

1. Provides coursework that enables students to meet proficiency requirements.
2. Encourages high school students to pursue higher education goals.

GED Test Preparation

Assists students in preparing for the GED examination.

Child Care Licensing Program

1. Provides child care licensing programs so students can obtain employment or open their own child care home business.

Citizenship Preparation

1. Prepares students for the United States citizenship interview and examination process.
2. Teaches students about the rights and benefits of becoming U.S. citizens.

Developmentally Disabled Adults

1. Provides opportunities for the realization of individual potentials in the areas of education, work, and social interaction.

English as a Second Language

1. Develops competency in the English language for non-native speakers at school, work, home, and in the community.
2. Improves fluency levels for success in vocational, high school, and college credit programs.
3. Develops an understanding of American culture, values, and civic responsibility.
4. Provides students with a strong academic foundation and improves language skills that can be used as a basis for lifelong learning and continuation into adult basic education, high school subjects, GED preparation, college credit and/or vocational programs. Ultimately, these skills should assist students in obtaining better employment opportunities.

Older Adult Program

1. Provides activities that enhance music appreciation, vocal, and instrumental skills through creative expression.
2. Offers information on basic nutrition, consumer awareness, and current cooking techniques.
3. Presents various topics for discussion and activities based on the student's individual interests, backgrounds, and mental abilities.
4. Provides a variety of art media and techniques that improve motor skills.
5. Teaches movement exercises designed to improve flexibility, strength, endurance, cardiovascular, and respiratory functions. Emphasis is on motor skills, coordination, balance training, joint protection, and relaxation techniques.

Parent Education

Provides a variety of learning opportunities and instruction for prospective parents regarding the intellectual, physical, and emotional components of the birth process.

1. Provides theory, methods, and practical applications for rearing children.
2. Encourages parents to acquire additional child guidance and decision-making skills that are congruent with their values, children's developmental and educational needs, and society's demands.

Career Education

1. Provides short-term vocational training for entry-level positions.
2. Provides courses that are updated through input from business industry advisory councils and the mandates of occupational licensing agencies.
3. Provides vocational assessment, technology, training, and employability skills to prepare job seekers for the workforce.

INSTRUCTIONAL PROGRAMS

Traditional, individualized and self-paced classroom instruction is offered in academic, vocational, and basic skills areas. Many classrooms at the larger sites utilize state of the art technology in instruction. Open Entry/Open Exit format allows flexibility in planning. Day and evening classes are offered throughout the community, and some classes are offered only on Fridays and Saturdays.

Adult Basic Education

Provides adult learners the opportunity to build a strong foundation in reading, writing, language, English usage, grammar, mathematics, and communication skills, and to develop practical skills in the areas of technology training and employment preparation.

Adult Secondary Education

Adult High School Diploma Program

- Provides all courses necessary to obtain a high school diploma through both traditional and individualized instruction methods.

GED Preparation

- Prepares adults to pass the GED high school equivalency exam.

Career Education

Provides a blend of technical, academic, and conceptual training to prepare students for direct entry into the workforce and advancement toward a higher level training. Students learn workforce preparation and technical skills in an independent laboratory, lecture classroom, or a combination of both these settings.

English as a Second Language

Instruction in English from beginning to advanced levels is offered at various locations throughout the district for non-English and limited English speaking adults. ESL Support classes in pronunciation, conversation, English for work, ESL Civics/Citizenship, and writing are also offered.

- **ESL CIVICS/CITIZENSHIP**
  Provides basic knowledge of local, state, and federal government in preparation for the United States citizenship examination including language development within the context of history and government.
- **ENGLISH LANGUAGE LAB**
  Provides opportunities for adult learners to use language-learning computer software to practice English. Civics instruction is provided to enhance awareness of learners' community. One-on-one, small-group, and technology-based instruction are offered based on individual needs. Instructors help learners create individual learning plans and set educational goals.

Health and Safety Education

Consists of courses specifically designed to offer lifelong education to promote the health, safety and well-being of individuals, families and communities.

Older Adult Program

Consists of courses specifically designed to offer lifelong education that provides opportunities for personal growth and development, community involvement, skills for mental and physical well-being, and economic self-sufficiency.

Parent Education Program

Prepares students for their important role as a key factor in child health, development and success, from the prenatal stage through college preparation. Parent education courses emphasize intellectual, physical, and emotional aspects of parenting.

Students with Substantial Disabilities

Provides courses to assist developmentally disabled adults with basic academic skills and independent living skills.

STUDENT SERVICES

Counseling, Career Planning and Guidance

Provides career, academic, personal and vocational counseling to students in the School of Continuing Education. Counselors provide students with

- educational planning
- interpretation of assessments
- orientation to programs and services.

Career and Employment Center

In collaboration with the Santa Ana Work Center, provides resources which include career planning and assessment plus job search and resume writing workshops.

Child Development

Provides child development programs so students can pursue their education.

Disabled Student Programs and Services

Provides services and accommodations for students with disabilities who apply for service.

Project Rise

Provides guidance and support to help students formerly incarcerated or justice impacted with their transition back into the community. Special focus and attention is directed to job training, education, community resources and support networks.

Student Development Program

Provides activities for students which include student government experience, leadership training, conferences, and various student opportunities to improve their leadership skills.

Summer Sessions

Both day and evening classes are offered in the summer at various locations.

Assessment

To meet the requirements of the Workforce Opportunity and Innovation Act (WIOA) grant, the Comprehensive Adult Student Assessment System (CASAS) standardized test is administered to all students in the following programs: Adult Basic Education; English as a Second Language (including Citizenship classes); and High School Diploma. CASAS is administered to measure student learning gains using a pre- and posttest method.

Veterans Service

Counseling and guidance for veterans is provided at SAC campus.

Veterans Resource Center

714-564-6050

Monday, Tuesday, Wednesday	8 a.m. – 6 p.m.
Thursday	8 a.m. – 7 p.m.
Friday	9 a.m. – 12 p.m.

ADMISSIONS AND FEES

Who May Attend

Students who have graduated from high school or are over 18 years of age are eligible to enroll in continuing education classes. Students under 18 years of age who have not graduated from high school may be admitted by special approval of their high school district of attendance and approval of a continuing education administrator.

Where to Register

For the convenience of the student, registration for continuing education classes may be completed at the following locations:

Santa Ana Area

Santa Ana College School of Continuing Education

Centennial Education Center

2900 West Edinger Avenue, Room A-101, Santa Ana, CA 92704

714-241-5700

Santa Ana College

1530 West 17th Street, Room B-8, Santa Ana, CA 92706

714-564-6173

Remington Education Center

1325 E. 4th Street, Santa Ana, CA 92701

714-241-5850

Online application

Students can apply online at: **sac.edu/sce/student-services/registration/Pages/Apply-Now.aspx**

Parking Fee

Students enrolling in classes that meet at Santa Ana College's main campus are expected to pay a parking fee for campus parking or park in one of the designated coin operated lots located on the south side of the campus. While the parking fee is payable at the Student Business Office on the college campuses, it is much quicker for student to purchase their parking permits through the new online parking permit system. When permits are purchased online, a temporary permit will be emailed to you for immediate use. There are links to this site at enrollment and on the college websites. The parking regulations for campus can be found on the Safety and Security web site at this link: **sac.edu/StudentServices/Security/Pages/Parking-Information.aspx**. There is important information regarding safely parking on campus on these pages, please take time to take a look.

No parking fee is required at Centennial Education Center or at other continuing education sites in the district.

Textbooks and Supplies

Textbooks for continuing education classes are available at:

Santa Ana College School of Continuing Education Bookstore – Centennial Education Center

2900 West Edinger Avenue

Santa Ana, CA 92704

Bookstore Hours are:

Monday, Tuesday, Wednesday	9 a.m. – 7 p.m.
Thursday	9 a.m. – 6 p.m.
Friday and Saturday	Closed

Schedule of Classes

A schedule of classes prepared each semester includes general information, courses offered, hours, rooms, and instructor names. Schedules are available before registration each semester in each of the major continuing education sites and Rancho Santiago Community College District campuses. Registration is ongoing for those classes which have been designated open entry/open exit.

Open Enrollment

Unless specifically exempted by statute, every course wherever offered and maintained by the district is fully open to enrollment and participation by any person who has qualified as a continuing education student and meets the approved prerequisites for that course.

Student Identification Card

Each student may obtain a picture student identification card upon request. This card must be presented when using the Santa Ana College library and entitles the student to a reduced admission fee to college functions. Student identification cards may be obtained at:

Santa Ana College,
1530 W. 17th Street, Santa Ana, CA 92706,
714-564-6965

Centennial Education Center,
2900 W. Edinger, Santa Ana, CA 92704

Remington Education Center,
1325 E. 4th Street, Santa Ana, CA 92701

Class Discontinuance Policy

Any class which does not have a total of at least 20 students enrolled by the beginning of instruction may be discontinued. Any class which does not maintain satisfactory attendance may be discontinued.

ADULT HIGH SCHOOL DIPLOMA PROGRAM

General Information

Learning should be a lifelong process if an individual is to have a full and rewarding life. Often, not having a high school diploma becomes a stumbling block for adults who would like to continue their education. Completing the high school diploma allows the individual to achieve greater goals. Educators in the School of Continuing Education know how difficult it is to return to education when the demands of employment, family and daily living take so much energy and time. With the busy adult in mind, the adult high school diploma program is designed to be flexible enough to fit the schedule of each individual. Rancho Santiago Community College District offers a comprehensive high school diploma program for adults who wish to continue their formal education.

Santa Ana College has maintained a High School Program since 1973. In 2009, the California Code of Regulations adopted minimum coursework and standards required by community colleges to award high school diplomas. Santa Ana College requested and received approval of its application for the new Adult High School Diploma Program in the summer of 2009 from the California Community College's Chancellor's Office.

Diplomas are issued by the Rancho Santiago Community College District to students who complete the required course of study and demonstrate proficiency in basic skills. Graduation ceremonies are traditionally held each May or June for several hundred adults of all ages. Students may complete the diploma program at any time during the year and receive verification of completion of requirements at that time. Courses designed to meet high school graduation requirements are offered in both the traditional classroom setting or in open entry/open exit individualized learning programs. Elective credits can be earned in continuing education classes offered in a wide variety of locations throughout the community as listed in the schedule of classes published each semester.

Counseling and Guidance

Counselors meet with students and design programs of study on an individual basis so that students desiring a high school diploma can achieve their individual educational goals. For students transferring from other high school or adult programs, counselors send for and evaluate previous transcripts to determine which courses meet the general education requirements and/or elective requirements. Counselors advise students of lifelong learning opportunities and assist students with postsecondary vocational and educational planning for degree or certificate programs at Santa Ana College School of Continuing Education.

These services are offered by a staff of professional counselors who are well informed as to the community resources available for students needing academic, vocational, personal, or financial assistance.

Registration

The Adult High School Diploma Program is available at Centennial Education Center and Santa Ana College. Students may obtain a schedule of classes and enroll at any time during the fall, spring, and summer semesters.

High School Graduation Requirements

To qualify for a high school diploma, the candidate must meet the following requirements:

Course of Study

The high school diploma requires a total of 160 credits taken from the following:

SUBJECT AREA	CREDITS
English Communication (a maximum of 10 credits of reading; must include at least one composition course)	40.0
Mathematics	20.0
Natural Sciences (must include both a biological and a physical science course)	20.0
Social and Behavioral Sciences (must include U.S. History, World Geography, World History, American Government, Economics and a Social Science elective)	30.0
Humanities	10.0
Electives	40.0
TOTAL	160.0

There may be additional requirements due to Title 5 changes for the 2020-2021 school year.

Petitions

A petition for graduation must be completed and submitted prior to the date students expect to complete diploma requirements.

Proficiency Requirements

Proficiency must be demonstrated in basic skills areas of reading, mathematics, and composition, according to the categories listed below:

1. **READING.** All Rancho Santiago Community College District adult high school graduates will be required to demonstrate an eighth grade reading ability as measured by an approved district test or by passing the Reading Proficiency Development course final
2. **MATHEMATICS.** Students will be required to pass an approved district mathematics examination, or the Algebra 1A course finals.
3. **ENGLISH COMPOSITION.** Students will be required to pass an approved district composition test or the Composition II course final.

Residency Requirement

To qualify for a high school diploma, a student must complete at least 20 coursework credits within the Rancho Santiago Community College District.

There are multiple sources of credit leading to the high school diploma. Sources are as follows:

1. Previous secondary schools
2. Trade or business schools
3. Armed Forces schools and/or programs
4. College credit courses
5. Correspondence courses
6. Adult school credit courses
7. Work experience credit
8. Consumer Skills Task Credit
9. Testing
10. Regional Occupational Program courses
11. Other approved sources of credit

Policies Governing Sources of Credit

A. Previous Secondary Schools

All credits earned in the 9th, 10th, 11th, and 12th grades recorded on an official transcript will be accepted except physical education credits and credits which are a duplication of course work for which credit was previously granted.

B. Trade or Business Schools

Courses taken in trade or business schools will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the Office of Private Postsecondary Education.

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

C. Armed Forces Schools and/or Programs

Credit may be granted for completion of training programs (armed services) and other valid educational experiences provided they have been certified by the United States Armed Forces Institute or by a statement on the service record, and provided they parallel 1) courses usually taught in secondary schools, and 2) vocational training courses with counterparts in civilian life.

The recommendations for credit for such programs and experiences are contained in three volumes published by the American Council on Education: The 1978 edition of the **GUIDE TO THE EVALUATION OF EDUCATIONAL EXPERIENCES IN THE ARMED SERVICES,** Vol. I-Air Force; Vol. II.-Army; Vol. III-Coast Guard, Marine, and Navy.

This section is to be interpreted as including:

Officer and enlisted service school courses;

1. Off-duty classes offered by the armed forces and cooperating local institutions;
2. Correspondence courses offered by the United States Armed Forces Institute, the Marine Corps Institute, the Coast Guard Institute, and cooperating colleges and universities;
3. United States Armed Forces Institute courses and subject examinations. (Authorization for this procedure is contained in Title V, Section 99, part C, of the California Administrative Code.)

D. College Credit Courses

College units to be used for high school credits may be evaluated in a ratio of 3 college units to 10 high school semester periods of credit. The college should be notified in writing when college credits are utilized to meet high school requirements.

College credit equivalency recommended by the American Council on Education guides will be evaluated for high school credit on the same basis as other college credit courses.

E. Correspondence Courses

Courses taken by correspondence will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the Office of Private Postsecondary Education.

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

F. Adult School Credit Courses

Courses taken at adult schools will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the California State Department of Education.

No credit will be allowed for physical education courses nor for courses from other adult schools if such courses are designated in the Rancho Santiago Community College District as "no high school credit.''

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

G. Work Experience Credit

Students may obtain credit for certain types of full-time work experience or for work experience that can be related to high school subject matter.

In order to obtain credit for work experience, students must provide written verification from those employers with whom they have worked for at least one year.

The Continuing Education administrators or counselors will evaluate the amount of work experience credit and the area of application. Evaluation will not be made for more credits than is necessary to meet graduation requirements and which the letters of verification justify. Combined work experience credit and consumer skills task credit may not exceed 40 credits.

Verification of work experience should be obtained by the student requesting from each employer, on official letterhead stationery, the following information:

1. Dates of employment.
2. Job description.
3. Nature of duties performed, indicating progress to more complex operations justifying a division into beginning and advanced skills.
4. Statements regarding successful performance.
5. Reason for termination of employment, if applicable.
6. The letter of self-employed students must be accompanied by a copy of the student's business license or W-2 form.
7. Upon receipt of verification of all work experience which the student wishes to be considered for credit, evaluation will be made on the following basis:
   a. Up to 10 credits will be given for the first year of successful work experience.
   b. Up to 10 additional credits to a maximum of 40 will be granted for each additional full year of employment if the student has made successful progress each year on the job.
   c. After the initial 10 credits for the first year, student may earn 5 credits for a period of six months employment, provided there is evidence of successful progress.

H. Consumer Skills Tasks Credits

Students may obtain elective credits for completion of various consumer skills tasks. Students should see their counselor concerning requirements for completion of the consumer skills tasks. Combined consumer skills tasks credit and work experience credit may not exceed 40 credits.

I. Assessment

The district may award a maximum of 80 high school credits on the basis of district approved testing.

Mathematics Achievement Test (ITED)
Credit may be earned in mathematics by obtaining a satisfactory score on the math section of the Iowa Tests of Education Development Form X5. No other subtests are accepted for credit purposes. Ten semester credits will be awarded for a raw score of 14, provided these credits are not a duplication of previously earned math credits. (These 10 credits may be used to satisfy Math Fundamentals I and II requirements.) Fifteen semester credits will be awarded for a raw score of 20, provided these credits are not a duplication of previously earned math credits. (These 15 credits may be used to satisfy Math Fundamentals I and II requirements, and 5 elective credits.)

8. Subject Matter Credit by Examination
   Credit by examination may be earned only for courses that are currently listed in the Rancho Santiago Community College District catalog and/or specifically designated by the division curriculum committee as courses that are eligible for credit by examination. Information for receiving this credit may be obtained from a counselor in Continuing Education.

J. Regional Occupational Program Courses

Credit will be determined upon receipt of an official secondary or community college transcript which indicates credit and grades as appropriate.

Guidelines for issuance of ROP credit when not on a unified school district transcript:

RSCCD will accept an official Grade Reporting Sheet from Central County Regional Occupational Program in lieu of a unified school district transcript provided it has a grade and a number of total hours.

1. The amount of credit issued is to be based on 16 clock hours per credit unit.
2. The maximum of 20 units toward electives will be accepted in this manner.
3. Students coming from outside the CCROP will have to validate their credits only through an official school district transcript.

K. High School Diploma Elective Credits Career Education

High School elective credit for selected Career Education/basic computer courses offered through the Career Education Department can be awarded.

4. English as a Second Language (ESL)
   Five elective High School Subjects credits can be awarded per level for Intermediate 1, 2, and 3 with passing scores on the ESL Post Tests and teacher recommendations. The passing scores are 75% for Intermediate 1 and 2 and 70% for Intermediate 3.
5. Adult Basic Education (ABE)
   Up to 15 HSS elective credits are granted when student successfully completes ABE Reading, ABE Math, and ABE Writing.

L. Articulation Agreements

An agreement between Santa Ana College (credit) and Santa Ana College School of Continuing Education (noncredit) whereby the credit side will accept the work of a noncredit student provided that the student fulfills the guidelines in the articulation agreement for the course.

1. Career Education Department
   a.VBUS 124 Keyboarding I
   b.VBUS 125 Keyboarding II
   c.PRNT 557 Early Childhood Education: Principles and Practices

See your counselor for further information.

STUDENT SERVICES AND SPECIAL NEEDS

Assessment

To meet the requirements of the Workforce Opportunity and Innovation Act (WIOA) grant, the Comprehensive Adult Student Assessment System (CASAS) standardized test is administered to all students in the following programs: Adult Basic Education; English as a Second Language (including Citizenship classes); and High School Diploma. CASAS is administered to measure student learning gains using a pre- and posttest method.

Counseling and Guidance

Each School of Continuing Education student is provided with the unique opportunity to benefit from an individualized counseling and guidance program designed to help students improve the quality of their lives.

Students seek counseling for many reasons, including planning of educational programs, obtaining of information about employment and job skills, resolving personal and family problems, examining aptitudes, interests, and achievement, finding new careers and vocational directions, and learning to cope with cultural differences and life in a new country. Students enrolling in courses leading toward a high school diploma must see a counselor upon registering each term. Counselors are available on a walk-in basis at selected facilities. For more information about counselors' schedules or to arrange an appointment, please call 714-241-5720 (Centennial Education Center), 714-564-6176 (Santa Ana College Adult Education Center) and 714-241-5820 (Remington Education Center).

The Student Transition Program (STP) was developed to help facilitate the process and bridge the transition from noncredit to credit classes at Santa Ana College. The program offers:

- classroom presentations
- application workshops
- financial aid workshops
- early registration to SAC

Child Development

Child development program centers are available at the Centennial Education Center, Santa Ana College, CDC East Campus. Arrangements may be made by calling 714-241-5739.

Developmentally Disabled Adult Program

Rancho Santiago Community College District is committed to providing all adult members of the community an opportunity to realize individual potentials. The college also identifies and responds to members with special needs.

Continuing Education is sensitive and responsive to the needs of a vital segment of our community-the developmentally disabled adult.

Instructors are assigned to special day centers and resource specialist centers and, in cooperation with staff, design individual education programs at selected locations.

Programs offered include Communication with the Deaf, basic education, independent living skills and employment preparation for the developmentally disabled adult.

Scholarships

Several scholarships are made available to Continuing Education high school graduates. Selection of scholarship recipients will be based upon recommendation of teachers and counselors, financial need, academic excellence, attendance, and minimum enrollment standards.

Santa Ana College Foundation Continuing Education Leadership And Achievement Scholarship

The Santa Ana College Foundation sponsors a scholarship program which recognizes both academic achievement and leadership among students earning the high school diploma from the Santa Ana College School of Continuing Education.

The scholarship awards will be based on academic excellence and demonstrated leadership capabilities. The selection committee will consider the applicants' overall qualifications.

Students must enroll for a **MINIMUM** of six credits.

Minimum Eligibility Requirements:

1. Students who will graduate in the spring semester from Santa Ana College School of Continuing Education High School Program must complete three proficiencies and need no more than 20 credits to meet the graduation credit requirements at the time of scholarship filing date.
2. Complete a minimum of 20 credits in classes within the Rancho Santiago Community College District.
3. A 3.5 GPA or better for all units completed at Rancho Santiago Community College District. (Other high school grades will be considered for qualification; however, the 3.5 minimum GPA will only be computed on grades received in Rancho Santiago Community College District.)

A. Attendance

A student may be dropped from the roster and required to re-enroll upon returning if the following absences occur:

1. Day Classes: two weeks, or five days in succession.
2. Evening Classes: four class meetings.
3. High School Subjects/Programmed Instruction: two weeks.

Note: Some courses may have different requirements of attendance. Please refer to program guidelines.

B. Grading Standards/Procedures

A	Superior	4 grade points per NC unit
B	Above Average	3 grade points per NC unit
C	Average	2 grade points per NC unit
D	Less Than Satisfactory	1 grade point per NC unit
F	Fail	0 grade points (but counted in GPA)
P	Pass	0 grade points
W	Withdrawal	0 grade points
CIP	In Progress	0 grade points
SP	Satisfactory Progress	
NP	No Measurable Progress	
COM	Completed	

C. Procedures for Student Complaints Regarding Grades

1 Education Code 76224 states: "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 for 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.''

2. Procedure

a. Student shall meet with instructor to discuss grade.

b. If the issue is not resolved, and the student believes that the grade is based on mistake, fraud, bad faith or incompetency (EC 76224), an appeal in writing may be made to the Dean-Continuing Education.

Forms of written appeal may be found in the office of the Area Dean of Instruction and Student Services.

c. The student may be requested to set up an appointment with the Dean-Continuing Education to discuss the written complaint.

d. The Dean-Continuing Education will review the allegations and may consult with the instructor.

e. The Dean-Continuing Education will review the issue and will notify the student and instructor in writing of the decision.

f. The decision of the Dean-Continuing Education is final.

D. COMPLAINT PROCEDURES FOR STUDENTS

Students may file a complaint when they believe they have been deprived of a right granted to students by the Board of Trustees in any of the policies or regulations of the Rancho Santiago Community College District.

The purpose of these complaint procedures is to resolve differences as fairly and expeditiously as possible while preserving the rights of students and staff members.

1. Definitions

Days: number of days refers to the days when the District offices are open.

Committee: Continuing Education Student Complaint Committee.

2. Procedure

a. Students shall first confer with the staff member who took action or made the ruling to which they object no later than ten days following the event which prompted the complaint.

b. The Area Dean of Instruction and Student Services or designee will assist the student in arranging an appointment with the staff member.

If the difference is not satisfactorily resolved, the student shall confer with the staff member's supervisor.

The Area Dean of Instruction and Student Services or designee will assist the student and staff member's supervisor.

c. If the complaint is unresolved, the student may file a written statement setting forth the nature of the complaint on the prescribed form with the Area Dean of Instruction and Student Services no later than ten days after conferring with the staff member's supervisor.

d. The complaint form shall be completed in full and shall include a full description of the complaint, times, dates and pertinent facts, and the remedy sought by the student.

A Student Complaint-Staff Response form will be sent to both the staff member and supervisor for completion.

e. The Area Dean of Instruction and Student Services shall forward the completed forms to the Continuing Education Student Complaint Committee chairperson for review and recommendation.

The committee shall have the power to make an appropriate investigation of the complaint and shall state the findings and make a recommendation.

f. If the complaint is sustained by the committee, it will recommend appropriate action for relief of the complaint and communicate this in writing to the staff member to whom the complaint was directed. If the staff member accepts the recommended action, and if the student who filed the complaint is satisfied with the action, the complaint shall be considered resolved and closed.

g. If the findings of the committee do not sustain the complaint, the committee shall communicate this finding in writing to the student who filed the complaint. If the student accepts this finding, the complaint shall be considered resolved and closed.

h. If no resolution of the complaint is obtained under (f.) or (g.) above, the Area Dean of Instruction and Student Services shall forward the complaint together with findings of the committee to the Chancellor for review and decision.

i. If this decision does not resolve the complaint in the opinion of the student, the Chancellor shall present the case to the Board of Trustees with the findings and recommendations. If the Board finds that the complaint is invalid, the Chancellor's recommendation shall stand in final resolution. If the Board finds that the complaint is valid, it shall instruct the Chancellor as to how the complaint shall be resolved, and the Chancellor shall implement the Board's decision.

E. HIGH SCHOOL DIPLOMA STUDENTS

1. Grade Reports: In-class progress is reported to the student in a number of ways. Tests are often given to show individual student progress. In high school credit classes, a progress form is issued to each student as credit is completed, and copies are given to the counselors and the appropriate Continuing Education office for recording.

2. Cumulative Records: The district will maintain cumulative records on each current high school diploma student. These records may contain pertinent information necessary to aid students in educational planning. Placement tests follow-up, interest inventories, and other data contained in the cumulative record will be available for review by the student upon request.

a. Student Record Confidentiality: Under the guidelines of the Family Educational Rights and Privacy Act of 1974, student records are confidential, and privacy is to be scrupulously maintained.

b. Right to Review and Challenge Records: Under the provisions of the U.S. Department of Health, Education and Welfare, students have the right to inspect and review any of the following files:

– admissions/records

– data processing

– financial aid

– placement

– veterans

After review and exploration, students may challenge any information relating to them if they believe information to be inaccurate, misleading, or otherwise in violation of their rights of privacy or other rights. Forms for challenge are available in the Area Dean of Instruction and Student Services office.

3. Residency

a. Definition: Course work taken in any part of the Rancho Santiago Community College District Continuing Education Program.

b. Requirements: Any student must fulfill a twenty semester unit period of residency within the above-stated definition in order to qualify for potential granting of the adult high school diploma from the Rancho Santiago Community College District.

4. Charge For Transcripts: The first two transcripts will be issued without charge. A charge will be assessed for each additional transcript after the first two.

F. High School Petition Students

Secondary school students who wish to take course work in Rancho Santiago Community College District Continuing Education and have it transferred to another school **MUST PRESENT A COMPLETED PETITION FOR REGISTRATION IN ORDER TO BE**

CONSIDERED FOR ADMISSION. FAILURE TO COMPLY FULLY WITH ALL CONDITIONS LISTED ON THE FORM MAY RESULT IN THE IMMEDIATE REVOCATION OF THE PETITION AND DISMISSAL FROM CONTINUING EDUCATION CLASSES.

1. Grading and Transfer of Credits: Students must satisfactorily complete all course requirements including exams, projects, papers and attendances before credit or grades can be issued. **STUDENTS ARE RESPONSIBLE FOR PLANNING SCHEDULES AND PROGRESS SO AS TO EARN CREDITS IN TIME TO MEET GRADUATION DEADLINES IN OTHER SCHOOL DISTRICTS.**

2 Books and Supplies: Students must provide textbooks and supplies required for the classes in which enrolled.Conduct: Student conduct must be productive, responsible and courteous at all times. Unacceptable behavior may result in the immediate revocation of this petition and dismissal from class. Unacceptable behavior includes, but is not limited to, excessive talking; noncompliance with rules; failure to follow instructor directions; falsification of records; cheating or assisting others to cheat; destruction or theft of school property; disruption of classes; violence; or being under the influence of drugs or alcohol.

G. High School Students Taking College Credit Classes for High School Diploma Credit

1. This program represents a cooperative venture between Rancho Santiago Community College District, neighboring high schools and the School of Continuing Education.

2. Students who are over eighteen years of age and have not graduated from high school may take Rancho Santiago Community College District courses for high school credit. Students will be admitted to those programs that have space available upon recommendation of the Area Dean-Continuing Education or designee.

3. Students under the age of eighteen who are high school students may receive high school or college credit for courses, but must also attend a minimum day at the high school. Students will be admitted to those programs that have space available upon recommendation of the high school principal or designee.

4. Repeating a course already passed will result in a credit-only grade—not a letter grade.

5. If a student elects to receive high school credit for work taken at the college, the decision must be made prior to registration. College credit for that work may not be received at a later time.

6. Enrollment in, and completion of, course work in the Rancho Santiago Community College District credit division can also satisfy the residency requirement of the Continuing Education High School Diploma Program.

H. SPECIAL RULES, REGULATIONS AND STUDENT OBLIGATIONS

Because of special program characteristics, the noncredit programs must adhere to special rules, regulations, and student obligation beyond the **STANDARD GUIDELINES FOR STUDENT CONDUCT** adopted by the Rancho Santiago Community College District. Students enrolled in any of the following programs are obligated to perform within those special program guidelines in order to maintain class attendance: Apprenticeship; Service-Employment-Redevelopment (SER); and any other community-based organization or governmental agency with which the Rancho Santiago Community College District cooperates in a program offering.

I. Family Education Rights and Privacy

As required under the provisions of the Family Education Rights and Privacy Act of 1974, the Rancho Santiago Community College District will make public without student consent only certain directory information. This information consists of the following: a student's name; city of residence; a major field; participation in officially recognized activities and sports; weight, height, and age if a member of an athletic team; dates of attendance; degree and awards received; and the most recent previous educational institution or agency attended by the student.

A student may request the Admissions and Records Office to withhold this information. Such request must be in writing and submitted each semester.

J. Right to Review and Challenge Records

Students have the right to inspect and review any of the following files which relate directly to them:

1) admissions/records; 2) data processing; 3) financial aid; 4) placement; 5) veterans; and 6) division/department, if such files are maintained as official files rather than individual files. Request forms are available in the office of the Area Dean of Instruction and Student Services.

After review and explanation, students may challenge any information relating to them if they believe the information to be inaccurate, misleading, or otherwise in violation of their rights of privacy or other rights. Any student wishing to exercise this right of challenge shall inform the Area Dean of Instruction and Student Services, or the Dean-Admissions and Records.

If students wish, copies of materials contained in the files subject to their review will be provided at a cost of $1 for the first copy of any document and .10 for each additional copy.

A log or record of persons or organizations requesting information or receiving information on the student will be maintained in the area where the records are stored.

District staff or other professionals who have a legitimate educational interest such as counseling and carrying out the normal operations of the educational program have access to student records.

Any student has the right to file complaint with the U.S. Department of Health, Education and Welfare concerning alleged failure of the institution to comply with provisions above or Section 438 of the General Provision.

K. Use of Public School Facilities for Adult Classes

1. Alcoholic Beverages and Controlled Substances: Both by policies instituted by local Boards of Education (Garden Grove Unified School District, Orange Unified School District, Rancho Santiago Community College District and Santa Ana Unified School District) and California State Law specifically prohibit possession of alcoholic beverages and controlled substances on school premises at any time, by any person, regardless of age. Regulations also prohibit use of alcoholic beverages at school events, whether on or off the campus, or the appearance at school events while under the influence of alcoholic beverages and/or controlled substances. The penalty for violation of these regulations is immediate suspension from school, followed by expulsion, if imposed by the Board of Trustees. Additional penalties may be imposed by law enforcement agencies.

2. Smoking: Provisions of the Uniform Fire Code, Article 29, Section 29.06, Smoking Activity on School Property, state:
"It shall be unlawful for any person or persons to engage in any smoking activity or to possess any flaming or glowing object or cause to be lighted any substance in any classroom or on school property at any time except in areas authorized by the local Board of Education." The only areas authorized for smoking are outside the school buildings. There is to be **NO SMOKING** by anyone in any of the classrooms at any time. Proper containers are provided in the smoking areas for disposal of cigarettes

3. Food and Beverages: Food and beverages are not to be brought into the classrooms at any time. Proper containers are provided for disposal of trash in designated areas.

NONCREDIT INSTRUCTIONAL PROGRAMS AND COURSES

Continuing Education courses are listed by subject on the following pages. Course numbers are listed at the beginning of each course title.

Open Entry/Open Exit courses are noted in the course descriptions. Students may enroll at any time in these courses and begin class immediately. Students progress at their own rate and may exit from the class at any time upon satisfactory completion of the required work.

In other courses, class hours refer to the number of hours that the class is scheduled to meet per week during a term.

All credits listed are high school credits. In traditional courses, students earn credits by satisfactorily completing the course. In open entry/open exit courses, students earn credits by meeting individual competency-based objectives.

Some noncredit programs offer a sequence of courses leading to a certificate. The class schedule should be consulted for current offerings.

DIPLOMA/CAREER DEVELOPMENT & COLLEGE PREPARATION CERTIFICATES

Adult Secondary Education (ASE)

Adult High School Diploma Program 357
Secondary Education (High School Equivalency Test Preparation): Certificate of Completion 357
Transition to College: Certificate of Competency 357

Adult Basic Education (ABE)

Adult Basic Education: Certificate of Competency 357
Adult Basic Education/Adult Secondary Education Reading Proficiency: Certificate of Competency 357
Adult Basic Education/Adult Secondary Education Writing Proficiency: Certificate of Competency 358
Adult Basic Education/Adult Secondary Education Math Proficiency: Certificate of Competency 358
Leadership Capstone: Certificate of Competency 358
Spanish Literacy Core Capstone: Certificate of Competency . . .358

Career Education

Biotechnology: Certificate of Competency 358
Caregiver/Personal Care Aide: Certificate of Competency 358
Childcare Workers: Certificate of Competency 359
Computer Maintenance and Repair Workers: Certificate of Competency 359
Customer Service Representative: Certificate of Competency . .359
Digital Literacy for Office and Administrative Support Worker: Certificate of Competency 360
Digital Literacy for Academic and Professional Success I: Certificate of Competency 360
Digital Literacy for Academic and Professional Success II: Certificate of Competency 360
General Office Clerk: Certificate of Competency. 360
Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology: Certificate of Competency 360
Hospitality Services: Certificate of Competency 361
Line Cook: Certificate of Competency 361
Machinist: Certificate of Competency 361
Nursing Assistant: Certificate of Competency 361
Paraprofessional Mental Health Worker: Certificate of Competency 362
Pharmacy Technology 362
Secretary/Administrative Assistant: Certificate of Competency .362
Vocational Construction Technology: Certificate of Competency .362

English as a Second Language (ESL)

Academic ESL Certificates:

Academic ESL Beginning: Certificate of Competency 363
Academic ESL Intermediate: Certificate of Competency 363
Academic ESL Capstone: Certificate of Competency 363
ESL Transition To Adult Secondary Education (ASE): Certificate of Competency 363

ESL Core Certificates:

ESL Core Literacy: Certificate of Competency 364
ESL Core Beginning: Certificate of Competency 364
ESL Core Intermediate: Certificate of Competency. 364
ESL Core Advanced: Certificate of Competency 364
ESL Core Capstone: Certificate of Competency 364
Digital Literacy for Academic and Professional Success I: Certificate of Competency 365
Digital Literacy for Academic and Professional Success II: Certificate of Competency 365

ESL Support Course Certificates:

ESL Enhanced Writing Capstone: Certificate of Competency . . .366
ESL Enhanced Speaking Capstone: Certificate of Competency . .366
ESL Enhanced Civics: Certificate of Competency 366

Vocational ESL Certificates: 366

Vocational ESL: Certificate of Competency 366
Vocational ESL Enhanced: Certificate of Competency 366

ADULT SECONDARY EDUCATION (ASE)

Students who complete the SAC SCE Adult Secondary Education High School Subjects or GED Programs will demonstrate the ability to apply essential grammar, reading, writing, math, and social/natural science concepts when transferring to college, entering the workforce, or for personal success.

Adult High School Diploma Program

Program Code: CEC.HSS.DIPL

Program Control Number: 31594

The sequence of courses in the High School Subjects, Adult Basic Education, and Learning Support programs is designed to provide a strong foundation of basic skills ranging from elementary levels through secondary subjects, with the purpose of preparing students to earn a high school diploma, obtain employment, pursue vocational training and better job opportunities, and to be prepared to continue into college credit level programs.

Program Learning Outcome(s):

Demonstrate the ability to apply essential academic concepts when transferring to college, entering the workforce, or for personal success.

Core Courses:	**Hours:**
HSS English (HSENG), HSS Reading (HSREAD)	40
HSS Math (HSMTH)	20
HSS Natural Sciences (HSSCI)	20
HSS Social Sciences (HSSOC)	30
HSS Arts (HSART)	10
Electives	40
Total:	**160**

Electives:

Adult Basic Education 018, 023, 024, 025, 027, 028, 029, 030, 031, 044, 137; Arts 601, 828, 837; Home Economics 520; HSS General 010, 090, 092, 144, 770; Study Skills 221, 222; English 065, 066, 067, 068, 070, 076, 083, 084, 085, 096, 097, 098, 701, 702, 703, 704, 705, 706, 707, 708; Reading 089, 093, 094; Math 151, 152, 154, 155, 158, 159, 163, 164, 166, 167, 168, 172, 173; Science 170, 171, 185, 186, 190, 191, 192, 193, 196, 197, 198; Social Science 215, 218, 219, 221, 222, 223, 224, 225, 228, 231, 232; Learning 084, 164, 750; Other 740, 742, 743, 744.

Secondary Education (High School Equivalency Test Preparation): Certificate of Completion

Program Code: CEC. GEDC.COM

Program Control Number: 24264

Courses in ABE which lead to the GED Test Preparation class or the High School Equivalency Test Preparation class (HiSET and GED) will prepare students for the reading, writing, and math skills necessary to successfully pass the High School Equivalency exam. The High School Equivalency exam is equivalent to a high school diploma and prepares students for college and/or to enter the workplace.

To obtain this certificate, take TWO courses.

Choose 1 Core Course:		**Credits:** 0
HSGED 031	GED Test Preparation	0
HSS 031	High School Equivalency Test Preparation	0
Choose 1:		**Credits:** 0
ABE 023	Adult Basic Education Reading	0
ABE 024	Adult Basic Education Writing	0
ABE 025	Adult Basic Education Math	0
ABE 112	Beginning Spanish Literacy	0
ABE 113	Intermediate Spanish Literacy	0
ABE 114	Advanced Spanish Literacy	0
	Total:	0

Transition to College: Certificate of Competency

Program Code: CEC.TRANS.COM

Program Control Number: 35217

The Transition to College certificate consists of courses to help students successfully prepare to progress in a career path or undertake degree applicable or non-degree-applicable credit courses in addition to preparing student with an orientation to college course.

To obtain this certificate, take TWO courses.

Core Courses:		**Credits:** 0
HSS 770	Orientation to College	0
Choose 1:		**Credits:** 0
HSENG 084	Composition 2	0
HSREAD 089	Reading Proficiency Development	0
HSMTH 164	Algebra 1B	0
	Total:	0

ADULT BASIC EDUCATION (ABE)

Students who complete the SAC SCE Adult Basic Education (ABE) Program will demonstrate the ability to apply essential reading, writing, and math concepts in either English or Spanish when transferring to High School Subjects, GED, entering the workforce, or for personal success.

Adult Basic Education: Certificate of Competency

Program Code: CEC.ABE.COM

Program Control Number: 33189

This certificate provides instruction for students to develop basic reading, writing, and math skills necessary to succeed in high school courses, GED preparation, and college courses. This certificate will provide valuable data on student success as ABE students transfer through programs. This certificate supports the college mission by providing a pathway to support improved language skills and lifelong intellectual pursuits.

To obtain this certificate, take three courses.

Core Courses:		**Credits:** 0
ABE 023	Adult Basic Education Reading	0
ABE 024	Adult Basic Education Writing	0
ABE 025	Adult Basic Education Math	0
	Total:	0

Adult Basic Education/Adult Secondary Education Reading Proficiency: Certificate of Competency

Program Code: CEC.ABER.COM

Program Control Number: 33452

This combination of courses is designed to prepare students for higher level reading skills used in High School courses, GED preparation, and college courses.

To obtain this certificate, take TWO courses.

Core Courses:		**Credits:** 0
ABE 023	Adult Basic Education Reading	0
Choose 1:		**Credits:** 15
HSRDG 089	Reading Proficiency Development	5
HSRDG 093	Building Reading Skills 1	5
HSRDG 094	Building Reading Skills 2	5
	Total:	15

Adult Basic Education/Adult Secondary Education Writing Proficiency: Certificate of Competency

Program Code: CEC. ABEW.COM

Program Control Number: 33187

This combination of courses is designed to prepare students for higher level writing skills used in high school courses, GED preparation, and College courses.

To obtain this certificate, take TWO courses.

Core Courses:		**Credits:** 5
ABE 024	Adult Basic Education Writing	0
HSENG 083	Composition 1	5
		Total: 5

Adult Basic Education/Adult Secondary Education Math Proficiency: Certificate of Competency

Program Code: CEC.ABEM.COM

Program Control Number: 33188

This combination of courses is designed to prepare students for higher level math skills used in high school courses, GED preparation, and college courses.

To obtain this certificate, take TWO courses.

Core Courses:		**Credits:** 5
ABE 025	Adult Basic Education Math	0
HSMTH 159	Math Fundamentals 2	5
		Total: 5

Leadership Capstone: Certificate of Competency

Program Code: CEC.LEADC.COM

Program Control Number: 38177

This combination of courses is designed to provide students with the leadership techniques necessary to make effective changes in their workplace, home, school, and community.

To obtain this certificate, take TWO courses.

Choose 1 Core Course:		**Credits:** 5
ABE 044	Leadership Basics Part 1	0
HSS 090	Leadership Basics, Part 1	5
Choose 1:		**Credits:** 5
ABE 018	Leadership Basics, Part 2	0
HSS 092	Leadership Basics, Part 2	5
		Total: 10

Spanish Literacy Core Capstone: Certificate of Competency

Program Code: CEC.ABESL.COM

Program Control Number: 38623

This combination of courses is designed to provide students with the content level knowledge in the areas of reading, writing, math, science, and social studies necessary to demonstrate comprehension of alfabetizacion (literacy), primaria (elementary), and secundaria (middle school). The class is taught in Spanish.

To obtain this certificate, take three courses.

Core Courses:		**Credits:** 0
ABE 112	Beginning Spanish Literacy	0
ABE 113	Intermediate Spanish Literacy	0
ABE 114	Advanced Spanish Literacy	0
		Total: 0

Career Education

Students who complete the SAC SCE Career and Technical Education Program will demonstrate the professionalism, technical, computer, and soft skills needed to obtain a new job or to improve their skills in a current job.

Biotechnology: Certificate of Completion

Program Code: CEC.VBIOT.CC

Program Control Number: 38684

This series of courses prepares students to transition to Santa Ana College's Biotechnology Lab Assistant Certificate Program. After completing these series of courses and the remaining required courses at Santa Ana College, students will have a fundamental overview of the application and underlying principles of biotechnology. They will know how to operate and maintain standard laboratory equipment. Students will have the knowledge and laboratory skills necessary to obtain entry level jobs in biotechnology. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any biotechnological environment.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to start their career pathway in biotechnology.

Complete and pass the following TWO courses:		**Credits:** 0
VHLTH 704	Introduction to Biotechnology	0
VHLTH 705	Introductory Biotech Lab	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
	– or –	
ESL 520	VESL: English for Work 2	0
		Total: 0

Caregiver/Personal Care Aide: Certificate of Completion

Program Code: CEC.CGPCA.CC

Program Control Number: 38621

This program prepares students to assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. In a simulated caregiving environment, students will gain experience performing caregiver duties, which may include nutrition, cleanliness, ambulation, and household activities. In Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any health/medical environment.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment as a caregiver/personal care aide and/or start their career pathway in healthcare.

Complete and pass the following TWO courses:		**Credits:** 0
VHLTH 109	Introduction to Caregiving	0
VHLTH 110	Caregiver Training	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
		Total: 0

Childcare Workers: Certificate of Completion

Program Code: CEC.CWRK.CC

Program Control Number: 24362

This series of open entry/open exit courses provides students with knowledge about the care and development of infants, toddlers, and pre-school children for family childcare providers. Students will learn about health information required for licensing and skills necessary for successful operation of a childcare business. In Employability Skills students learn soft skills for those who would prefer to be employed by a childcare business.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment, start their home-based childcare center, and/or start their career pathway in early childhood education.

Complete and pass the following FOUR courses:		**Credits:** 0
PRNT 558	Early Childhood Care and Development for Family Child Care Providers	0
PRNT 562	Health Education for Family Day Care Providers	0
VBUS 559	Business Practices in Family Day Care	0
VBUS 590	Introduction on How to Start a Small Business	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
	– or –	
ESL 520	VESL: English for Work 2	0
		Total: 0

Computer Maintenance and Repair Workers: Certificate of Completion

Program Code: CEC.CMRW.CC

Program Control Number: 24384

This series of courses provides students with skills in maintenance, repair, upgrading, and networking of personal computers. The open-entry/open-exit instructional format emphasizes functional operations of hardware and software components, hands-on experience with upgrading and repair of computers, setting up home and small office networks, and troubleshooting most technical problems. Students will receive five High School elective credits upon completion of each course.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in information technology or technology related fields.

Complete and pass the following THREE courses:		**Credits:** 0
VBUS 450	Hardware and Software A+ Preparation, Review, Practice	0
VBUS 574	Computer Basics: Hardware and Software	0
VBUS 576	Computer Basics: Systems and Networking Essentials	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
	– or –	
ESL 520	VESL: English for Work 2	0
		Total: 0

Customer Service Representative: Certificate of Completion

Program Code: CEC.CSRC.CC

Program Control Number: 24364

Customer service representatives interact with customers to handle complaints, process orders, and provide information about an organization's products and services. This series of courses prepares students to work in a wide variety of business settings, with the focus being on attending to and meeting the customer's needs and requests. Students will have the opportunity to strengthen or improve their current customer service, interpersonal, communication, listening, patience, and problem-solving qualities. In addition, students will attain the typing and computer skills necessary to be efficient workers. Customer service representatives typically need a high school diploma or equivalent so students are recommended to earn a diploma/certificate to increase the probability of obtaining a position in this profession. High school elective credits may be given for completing VBUS 118, VBUS 124, VBUS 243, VBUS 258, VBUS 270, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these classes. Customer service representatives are employed in nearly every industry, with many working in telephone call centers, credit and insurance agencies, banks, and retail stores.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain employment as a customer service representative and/or start their career pathway in administrative support.

Complete and pass the following TWO courses:		**Credits:** 0
VBUS 124	Introduction to Keyboarding I	0
VBUS 243	Introduction to Customer Service Skills	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 118	Introduction to Windows	0
VBUS 258	Navigating the Internet	0
VBUS 270	Introduction to Microsoft Outlook	0
		Total: 0

Digital Literacy for Office and Administrative Support Worker: Certificate of Completion

Program Code: CEC.DLOAS.CC

Program Control Number: 39456

This certificate program connects ESL and career education instruction in a way that prepares English language and/or digital literacy learners for further education or training, employment and careers. Students will engage in collaborative projects designed to help the student develop the professional and technical computer skills needed to succeed in today's workforce. Upon completing this program, students will have developed the knowledge, skills, and confidence needed to make an easy transition to the General Office Clerk, Secretary/Administrative Assistant, and/or Customer Service Representative Certificate Programs offered by Santa Ana College School of Continuing Education. The certificate provides students with the foundational digital literacy skills to begin an office and administrative support career pathway.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in administrative support.

Complete and pass the following FOUR courses:		**Credits:** 0
VBUS 500	Digital Literacy for Academic and Professional Success - Tier 1	0
VBUS 501	Digital Literacy for Academic and Professional Success - Tier 2	0
VBUS 502	Digital Literacy for Academic and Professional Success - Tier 3	0
VBUS 503	Digital Literacy for Real World Application - Tier 4	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
		Total: 0

General Office Clerk: Certificate of Completion

Program Code: CEC.GOC.CC

Program Control Number: 24365

General office clerks perform a variety of clerical tasks, including using the computer to prepare documents and interact with staff, clients, and the public. This series of courses offers students the foundation for learning important soft skills, basic office skills, and using the computer software necessary to work in a general office setting. General office clerks typically need a high school diploma or equivalent so students are recommended to earn a diploma/certificate to increase the probability of obtaining a position in this profession. High school elective credits may be given for completing VBUS 118, VBUS 124, VBUS 260, VBUS 262, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these classes.

Program Learning Outcome(s):

Use the computer software necessary to work in a general office setting.

Complete and pass the following TWO courses:		**Credits:** 0
VBUS 260	Introduction to Word Processing Using MS Word	0
VBUS 262	Introduction to Spreadsheets Using MS Excel	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 118	Introduction to Windows	0
VBUS 124	Introduction to Keyboarding I	0
		Total: 0

Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology: Certificate of Completion

Program Code: CEC.VHVAC.CC

Program Control Number: 39745

The Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) (Heating, Ventilation, Air Conditioning and refrigeration) Technology program develops students for careers or additional education in the HVAC-R field. Students completing the courses in this certificate will have competence in the program areas of safety, basic refrigeration, basic electricity, heating, air-conditioning, ventilation, and soft skills. Students will possess entry-level skills in the repair and servicing of refrigeration, air conditioning, and heating equipment used in residential, industrial, and commercial buildings.

Program Learning Outcome(s):

Students will possess entry-level skills in the repair and servicing of refrigeration, air conditioning, and heating equipment use in residential, industrial, and commercial buildings.

Complete and pass the following course:		**Credits**: 0
VCNST630	Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS400	Employability Skills	0
ESL520	VESL: English for Work 2	0
		Total: 0

Hospitality Services: Certificate of Completion

Program Code: CEC.VHOSP.CC

Program Control Number: 38680

The Hospitality Services Certificate allows students to explore careers in hospitality, specifically in food services and hotel/motel/resort front desk; understand the advantages and challenges of each; and use self-assessment tools to determine which is right for them. The program emphasizes customer service and its importance, helping students understand customer behavior and loyalty in a diverse and increasingly global society. Students will also learn techniques and tips for finding work in the hospitality industry. Moreover, in Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any hospitality environment.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in hospitality.

Complete and pass the following TWO courses:		**Credits:** 0
VHOSP 201	Career Focus - Hospitality Services	0
VBUS 243	Introduction to Customer Services Skills	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 118	Introduction to Windows	0
VFOOD 005	ServSafe Food Handler	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
		Total: 0

Line Cook: Certificate of Completion

Program Code: CEC.VCOOK.CC

Program Control Number: 39746

Line Cook is an important job in the restaurant industry. This training program allows students to master basic cooking techniques which can then be used to create an endless variety of dishes. Students have an opportunity to learn many aspects of food preparations, and the proper methods of presentation and serving. Students will also be prepared to take the ServSafe Food Protection Manager CertificationExam. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any culinary environment. In addition, the program prepares students to transition to Santa Ana College's Culinary Arts Program to continue their training. High school elective credits may be given for completing VFOOD 200, VFOOD 210, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these courses.

Program Learning Outcome(s):

Prepare students for employment as line cooks and food preparation workers. In addition, it prepares students for a pathway in culinary careers and transition to Santa Ana College's Culinary Arts Program.

Complete and pass the following TWO courses:		**Credits:** 0
VFOOD200	Line Cook Training	0
VFOOD210	ServeSafe Food Protection Manager Certification Exam Preparation, Review, & Practice	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS400	Employability Skills	0
ESL520	VESL: English for Work 2	0
		Total: 0

Machinist: Certificate of Completion

Program Code: CEC.VMACH.CC

Program Control Number: 39747

These courses prepare students to transition to Santa Ana College's Manufacturing Technology Program. Students will learn the fundamental operations on lathes, milling machines, grinders, and drill pressers, including precision measurements and layout. Students will be equipped with the skills and theory necessary to enter or upgrade within the machinist trade. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any manufacturing technology environment.

Program Learning Outcome(s)

Apply the knowledge and skills they gained to start their career pathway in manufacturing technology.

Complete and pass the following TWO courses:		**Credits:** 5
VBUS680	Basic Machining Concepts and Operations	0
HSMTH158	Math Fundamentals 1	5
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS400	Employability Skills	0
ESL520	VESL: English for Work 2	0
		Total: 5

Nursing Assistant: Certificate of Completion

Program Code: CEC.VNRNA.CC

Program Control Number: 39748

The Nursing Assistant Certificate is designed to provide students with the clinical and theoretical knowledge to prepare for the Certified Nursing Assistant (CNA) designation. Students will learn to be part of a healthcare team under the supervision of a nurse. The curriculum is based on the professional standards established by regulatory agencies, and it covers essential topics included in the Nurse Assistant Certification Exam. Moreover, in Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any medical environment.

Program Learning Outcome(s):

Prepare students to take the California certification exam.

Complete and pass the following TWO courses:		**Credits: 0**
VHLTH101	Overview of the Nursing Assistant Training Program	0
VHLTH102	Certified Nursing Assistant (CNA) Training	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS400	Employability Skills	0
ESL520	VESL: English for Work 2	0
		Total: 0

Paraprofessional Mental Health Worker: Certificate of Completion

Program Code: CEC.NAOA.CC

Program Control Number: 24358

This series of courses provides students with the basic skills to gain employment as a Paraprofessional Mental Health Worker. Students acquire knowledge about the treatment of psychological and behavioral health disorders and the philosophy of delivery of mental health services to improve entry into this field. The certificate program in an open-entry/open-exit environment develops competency for vocational success that allows students to attain skill development in basic delivery of services, documentation and reporting, introduction to human development, principles of case management, working with families, and employability.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in mental healthcare.

Complete and pass ALL of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
VHLTH 895	Paraprofessional Mental Health Worker I	0
VHLTH 896	Paraprofessional Mental Health Worker II	0
VHLTH 897	Paraprofessional Mental Health Worker III	0
		Total: 0

Pharmacy Technology: Certificate of Completion

Program Code: CEC.VPHAR.CC

Program Control Number: 38771

This certificate introduces students to the Santa Ana College Pharmacy Technology program and pharmacy technology careers. As registered School of Continuing Education students, students must pass the Principles of Mathematics course which prepares them with the basic math skills needed to succeed in pharmacy calculation. In Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any pharmaceutical environment. The remaining courses to meet the minimum training to apply for the Board of Pharmacy License are to be taken as a student enrolled at Santa Ana College. After completing all the required courses at Santa Ana College, students are primarily prepared for employment.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to start their career pathway in pharmacy technology.

Complete and pass the following TWO courses:		**Credits:** 0
VHLTH 799	Introduction to Pharmacy Technology	0
HSMTH 151	Principles of Mathematics	5
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
		Total: 5

Secretary/Administrative Assistant: Certificate of Completion

Program Code: CEC.SECAD.CC

Program Control Number: 24390

Secretaries and administrative assistants perform routine clerical and administrative duties. They organize files, prepare documents, schedule appointments, and support other staff. This series of courses helps students prepare for office support positions that might require enhanced keyboarding skills and higher-level office management skills. Secretaries/administrative assistants need a high school diploma or equivalent so students are recommended to earn a diploma/certificate to obtain a position in this profession. High school elective credits may be given for completing VBUS 125, VBUS 244, VBUS 245, VBUS 270, VBUS 304, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these classes. Secretaries and administrative assistants work in nearly every industry with many employed in schools, hospitals, and government, legal, and medical offices.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in administrative support.

Complete and pass the following TWO courses:		**Credits:** 0
VBUS 125	Introduction to Keyboarding II	0
VBUS 270	Introduction to Microsoft Outlook	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
Complete and pass ONE of the following courses:		**Credits:** 0
VBUS 244	Introduction to Databases Using Microsoft Access	0
VBUS 245	Introduction to Desktop Publishing Using Microsoft Publisher	0
VBUS 304	Introduction to Electronic Presentations Using Powerpoint	0
		Total: 0

Vocational Construction Technology: Certificate of Completion

Program Code: CEC.VCNST.CC

Program Control Number: 32681

This series of courses will provide students with the skills to move towards employment as an apprentice in various areas which may include: General and commercial contracting and/or property maintenance. In addition to getting hands-on instruction in construction, students will receive classroom instruction in math, Occupational Safety and Health Administration (OSHA) safety standards, and employability skills. Students will receive 5 High School elective credits upon completion of each course.

Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment, apprenticeship, and/or start their career pathway in construction.

Complete and pass ALL of the following courses:		**Credits:** 0
VCNST 610	Vocational Construction Technology Module I	0
VCNST 620	Vocational Construction Technology Module II	0
VBUS 400	Employability Skills	0
		Total: 0

English as a Second Language (ESL)

Upon completion of the SAC SCE ESL program, students will demonstrate increased proficiency in the listening, speaking, reading, writing, and critical thinking skills necessary to further their education, enter the workforce, and actively participate in the community.

Academic ESL Certificates:

Academic ESL Beginning:

Certificate of Competency

Program Code: CEC.ESLB.COM

Program Control Number: 30785

This combination of courses is designed to help students prepare to successfully transition to Career Technical Education (CTE), Adult Basic Education (ABE) courses, GED Test Preparation or High School Equivalency Test Preparation courses, High School Subjects courses, and college courses.

Program Learning Outcome(s):

Take other courses in other programs.

Complete ALL of the following courses.		**Credits**: 0
ESL 704	Academic Beginning A	0
ESL 705	Academic Beginning B	0
		Total: 0

Academic ESL Intermediate: Certificate of Competency

Program Code: CEC.ESLI.COM

Program Control Number: 30788

This combination of courses is designed to help students prepare to successfully transition to Career Technical Education (CTE), Adult Basic Education (ABE) courses, GED Test Preparation or High School Equivalency Test Preparation courses, High School Subjects courses, and college courses.

Program Learning Outcome(s):

Take other courses in other programs.

Complete ALL of the following courses.		**Credits:** 0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
		Total: 0

Academic ESL Capstone: Certificate of Competency

Program Code: CEC.ESLC.COM

Program Control Number: 37199

This capstone certificate is designed to demonstrate the students' accumulated development and advanced knowledge to successfully transition to Career Technical Education (CTE), Adult Basic Education (ABE) courses, GED Test Preparation or High School Equivalency Test Preparation courses, High School Subjects courses, and college courses.

Program Learning Outcome(s):

Take other courses in other programs.

To obtain this certificate, take TWO courses.

Core Courses:		**Credits:** 0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
Choose 1:		**Credits:** 15
ABE 023	Adult Basic Education Reading	0
ABE 024	Adult Basic Education Writing	0
ESL 491	Advanced Writing and Grammar Review	0
ESL 720	ESL Transition to College Class	0
HSGED 031	GED Test Preparation	0
HSRDG 089	Reading Proficiency Development	5
HSRDG 093	Building Reading Skills 1	5
HSS 031	High School Equivalency Test Preparation	0
LRN 750	Intensive Writing and Grammar	5
VBUS 400	Employability Skills	0
		Total: 15

ESL Transition To Adult Secondary Education (ASE): Certificate of Competency

Program Code: CEC.ESLTA.COM

Program Control Number: 37200

This combination of courses is designed to transition students to Adult Secondary Education (ASE) courses.

Program Learning Outcome(s):

Take other courses in other programs.

To obtain this certificate, take TWO courses:

Core Course:		**Credits:** 0
ESL 491	Advanced Writing and Grammar Review	0
Choose 1:		
HSRDG 089	Reading Proficiency Development	5
HSRDG 093	Building Reading Skills 1	5
VBUS 258	Navigating the Internet	0
VBUS 260	Introduction to Word Processing Using MS Word	0
LRN 750	Intensive Writing and Grammar	5
		Total: 15

ESL Core Certificates:

ESL Core Literacy: Certificate of Competency

Program Code: CEC.ESLCL.COM

Program Control Number: 37093

This combination of courses is designed to help students develop adequate literacy skills to succeed in the core ESL courses that follow. In this series of courses, students will learn to function at a basic literacy level in reading, writing, listening, and speaking in both English and in their native language.

Program Learning Outcome(s):

Take other courses in other programs.

To obtain this certificate, take TWO courses.

Core Course:		**Credits:** 0
ESL 300	Literacy	0
Choose 1:		**Credits:** 0
ABE 111	Spanish Literacy for Adults	0
ABE 112	Beginning Spanish Literacy	0
ABE 113	Intermediate Spanish Literacy	0
ABE 114	Advanced Spanish Literacy	0
		Total: 0

ESL Core Beginning: Certificate of Competency

Program Code: CEC.ESLCB.COM

Program Control Number: 36618

This combination of courses is designed to help students begin to communicate in some of the everyday life situations they will encounter at home, at work, at school, and in the community.

Program Learning Outcome(s):

Take other courses in other programs.

Complete ALL of the following courses.		**Credits:** 0
ESL 300	Literacy	0
ESL 301	Beginning Low	0
ESL 302	Beginning High	0
		Total: 0

ESL Core Intermediate: Certificate of Competency

Program Code: CEC.ESLCI.COM

Program Control Number: 36828

This combination of intermediate-level courses is designed to help students communicate in many of the everyday life situations they will encounter at home, at work, at school, and in the community.

Program Learning Outcome(s):

Take other courses in other programs.

To obtain this certificate, take TWO courses.

Choose 1:		**Credits:** 0
ESL 303	Intermediate Low	0
ESL 704	Academic Beginning A	0
Choose 1:		**Credits:** 0
ESL 304	Intermediate High	0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
		Total: 0

ESL Core Advanced: Certificate of Competency

Program Code: CEC.ESLCA.COM

Program Control Number: 36829

This combination of two advanced-level courses is designed to help students communicate in most of the everyday life situations they will encounter at home, at school, at work and in the community. The courses emphasize reading and writing.

Program Learning Outcome(s):

Take other courses in other programs.

To obtain this certificate, take TWO courses.		**Credits:** 0
ESL 305	Advanced Low	0
ESL 306	Advanced High	0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
		Total: 0

ESL Core Capstone: Certificate of Competency

Program Code: CEC.ESLCS.COM

Program Control Number: 36880

This combination of courses is designed to help students communicate in most of the everyday life situations they will encounter at home, at school, at work and in the community. These courses emphasize reading and writing to prepare students for higher education and career opportunities.

Program Learning Outcome(s):

Take other courses in other programs.

To obtain this certificate, take FOUR courses.

Choose 3:		**Credits:** 0
ESL 304	Intermediate High	0
ESL 305	Advanced Low	0
ESL 306	Advanced High	0
ESL 705	Academic Beginning B	0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
Choose 1:		**Credits:** 15
ABE 023	Adult Basic Education Reading	0
ABE 024	Adult Basic Education Writing	0
ESL 491	Advanced Writing and Grammar Review	0
ESL 720	ESL Transition to College Class	0
HSGED 031	GED Test Preparation	0
HSRDG 089	Reading Proficiency Development	5
HSRDG 093	Building Reading Skills 1	5
HSS 031	High School Equivalency Test Preparation	0
LRN 750	Intensive Writing and Grammar	5
VBUS 400	Employability Skills	0
		Total: 15

Digital Literacy for Academic and Professional Success I: Certificate of Competency

Program Code: CEC.DLAP1.COM

Program Control Number: 39572

This certificate program is designed for ESL students, of all levels, to learn new and/or improve their digital literacy skills. It covers operating systems, word processing applications, e-mail, the internet, online educational applications, social media, and more. Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

Program Learning Outcome(S)

Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

To obtain this certificate, take TWO courses.

Take ONE course:		**Credits:** 0
ESL 301	Beginning Low	0
ESL 302	Beginning High	0
ESL 303	Intermediate Low	0
ESL 304	Intermediate High	0
ESL 305	Advanced Low	0
ESL 306	Advanced High	0
ESL 704	Academic Beginning A	0
ESL 705	Academic Beginning B	0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
Take ONE course:		**Credits:** 0
VBUS500	Digital Literacy for Academic and Professional Success - Tier 1	0
VBUS501	Digital Literacy for Academic and Professional Success - Tier 2	0
		Total: 0

Digital Literacy for Academic and Professional Success II: Certificate of Competency

Program Code: CEC.DLAP2.COM

Program Control Number: 39573

This certificate program is designed for ESL students, of all levels, to learn new and/or improve their digital literacy skills. It covers internet safety, online conferencing, blogging, learning management systems, online portfolios, and more. Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

Program Learning Outcome(s):

Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

To obtain certificate, take TWO courses:

Take ONE course:		**Credits:** 0
ESL 301	Beginning Low	0
ESL 302	Beginning High	0
ESL 303	Intermediate Low	0
ESL 304	Intermediate High	0
ESL 305	Advanced Low	0
ESL 306	Advanced High	0
ESL 704	Academic Beginning A	0
ESL 705	Academic Beginning B	0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
Take ONE course:		**Credits:** 0
VBUS 502	Digital Literacy for Academic and Professional Success - Tier 3	0
VBUS 503	Digital Literacy for Real World Application – Tier 4	0
		Total: 0

ESL Support Course Certificates:

ESL Enhanced Writing Capstone: Certificate of Competency

Program Code: CEC.ESLEW.COM

Program Control Number: 36835

This combination of courses is designed to help students quickly improve their writing abilities in English by focusing on writing and grammar.

Program Learning Outcome(s):

Take other courses in other programs.

To obtain this certificate, take THREE courses.

Choose 3:		**Credits:** 0
ESL 488	Basic Writing	0
ESL 489	Intermediate Writing	0
ESL 490	Advanced Writing and Grammar	0
ESL 491	Advanced Writing and Grammar Review	0
		Total: 0

ESL Enhanced Speaking Capstone: Certificate of Competency

Program Code: CEC.ESLES.COM

Program Control Number: 37094

This combination of courses is designed to help students quickly improve their speaking abilities in English by focusing on pronunciation and conversation.

Program Learning Outcome(s):

Take noncredit or credit classes, make progress in a career path, or transition to other programs at public and private institutions.

To obtain this certificate, take TWO courses.

Choose 1		**Credits:** 0
ESL 570	Conversation 1	0
ESL 580	Conversation 2	0
Choose 1:		**Credits: 0**
ESL 130	Topics in English as a Second Language	0
ESL 398	ESL Community Learning Center	0
ESL 530	American English Pronunciation	0
		Total: 0

ESL Enhanced Civics: Certificate of Competency

Program Code: CEC.ESLEC.COM

Program Control Number: 37095
This combination of courses is designed to help students learn more about civics involvement opportunities, prepare for U.S. Citizenship, and participate in the community.

Program Learning Outcome(s):

Take noncredit or credit classes, make progress in a career path, or transition to other programs at public and private institutions.

To obtain this certificate, take TWO courses.

Choose 2:		**Credits:** 0
ESL 120	ESL Civics	0
ESL 130	Topics in English as a Second Language	0
ESL 392	Writing and Computers: Developing a School Publication	0
ESL 398	ESL Community Learning Center	0
		Total: 0

Vocational ESL Certificates

Vocational ESL: Certificate of Competency

Program Code: CEC.ESLV.COM

Program Control Number: 30782

This combination of courses is designed to help students communicate successfully in an English speaking workplace.

Program Learning Outcome(s):

Take other related classes in vocational, credit, private programs or other community-based organizations.

Complete ALL of the following courses.		**Credits:** 0
ESL 510	VESL: English for Work 1	0
ESL 520	VESL: English for Work 2	0
		Total: 0

Vocational ESL Enhanced: Certificate of Competency

Program Code: CEC.ESLVH.COM

Program Control Number: 37238

This combination of courses is designed to help students communicate successfully in an English-speaking workplace and includes the development of writing and/or computer skills.

Program Learning Outcome(s):

Take other related classes in vocational, credit, private programs or other community-based organizations.

To obtain this certificate, take TWO courses.

Choose 1		**Credits:** 0
ESL 510	VESL: English for Work 1	0
ESL 520	VESL: English for Work 2	0
Choose 1:		**Credits:** 0
ESL 130	Topics in English as a Second Language	0
ESL 394	ESL Writing A	0
ESL 398	ESL Community Learning Center	0
ESL 488	Basic Writing	0
		Total: 0

ANNOUNCEMENT OF COURSES

Adult Basic Education (ABE)

ABE 010

Money Matters: Financial Literacy

Credit(s): 0.0 Class Hours: 36.0 Lecture total.

Prepares the student for the adult world of financial management by developing sound decision-making skills in personal and family money matters. Two point five (2.5) high school elective credits may be given for completing ABE 010 if the student achieves the attendance and proficiency requirements to pass the class.

ABE 018

Leadership Basics, Part 2

Credit(s): 0 Class Hours: 72 Lecture total.

Students will increase their mastery of basic skills through intensive, interactive, student-centered activities designed to give hands-on training and experience in aspects of directing and facilitating a conference. This is the second of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Five high school elective credits may be given for completing either ABE 018 or HSS 092. Open Entry/Open Exit.

ABE 023

Adult Basic Education Reading

Credit(s): 0 Class Hours: 72 Lecture total.

Instructs students in basic reading skills. Prepares students to take High School Subjects courses, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. Five High School elective credits may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 024

Adult Basic Education Writing

Credit(s): 0 Class Hours: 72 Lecture total.

Instructs students in basic writing skills. Prepares students to take High School Subjects courses, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. Five High School elective credits may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 025

Adult Basic Education Math

Credit(s): 0 Class Hours: 72 Lecture total.

Instructs students in basic math skills. Prepares students to take High School Subjects courses, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. Five High School elective credits may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 027

Academic Vocabulary for Language Arts

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for language arts. Prepares students to take high school subjects in language arts, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 028

Academic Vocabulary for Math

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for math courses. Prepares students to take high school subjects in math, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 029

Academic Vocabulary for Science

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for science courses. Prepares students to take high school subjects in science, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 030

Academic Vocabulary for Social Studies

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for courses in social studies. Prepares students to take high school subjects in social studies, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 031

Academic Vocabulary for Technology

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for technology courses. Prepares students to take high school subjects using technology, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

ABE 044

Leadership Basics Part 1

Credit(s): 0 Class Hours: 72 Lecture total.

Provides the first of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Students will increase their mastery of basic skills through intensive, interactive, student-centered activities. The course requires participation in the four areas of language acquisition: reading, writing, listening, and speaking. Recommended for ABE and ESL Intermediate 1, 2, or 3 or above students. Open Entry/Open Exit.

ABE 046

Attitudes for Success

Credit(s): 0 Class Hours: 72 Lecture total.

Provides students with classroom discussion and information about attitudes and behaviors that influence success in their personal, educational and career development.

ABE 111

Spanish Literacy for Adults

Credit(s): 0 Class Hours: 480 Lecture total.

Assists native Spanish-speaking students in acquiring literacy in Spanish in order to facilitate the transition to beginning ESL,ABE and high school equivalency courses. Focuses on basic reading and writing skills, including phonics decoding and encoding skills, as well as classroom, parenting and community coping skills. Recommended for non-literate native speakers of Spanish. Taught in Spanish. Open Entry/Open Exit.

ABE 112

Beginning Spanish Literacy

Credit(s): 0 Class Hours: 160 Lecture total.

Assists students in acquiring literacy skills in Spanish to facilitate their transition to Intermediate Spanish Literacy, ESL, ABE, high school diploma, and high school equivalency courses. Focuses on phonetic decoding and encoding skills, basic reading and writing skills, as well as classroom, parenting and community coping skills. Taught in Spanish. Open entry/open exit. Open Entry/Open Exit.

ABE 113

Intermediate Spanish Literacy

Credit(s): 0 Class Hours: 160 Lecture total.

Assists students in acquiring literacy in Spanish to facilitate the transition to Advanced Spanish Literacy, ESL and ABE equivalency courses. Focuses on basic reading and writing skills, including phonics decoding and encoding skills, as well as classroom, parenting and community coping skills. Taught in Spanish. Open entry/open exit. Open Entry/Open Exit.

ABE 114

Advanced Spanish Literacy

Credit(s): 0 Class Hours: 160 Lecture total.

Assists students in acquiring literacy in Spanish in order to facilitate the transition to ESL, ABE, high school diploma, and high school equivalency courses. Focuses on higher level reading and writing skills, including history and mathematics. Taught in Spanish. Open entry/open exit. Open Entry/Open Exit.

ABE 137

Topics in Adult Basic Education

Credit(s): 0-5 Class Hours: 3-216 Lecture total.

A specialized course on topics related to current needs of Adult Basic Education students. Open Entry/Open Exit.

Citizenship (CTZN)

CTZN 020

Citizenship

Credit(s): 0 Class Hours: 72 Lecture total.

Provides basic knowledge and preparation for the United States citizenship process and naturalization test including language usage within the context of American history, government, and civics. Open Entry/Open Exit.

Counseling (CNSL)

CNSL 303

Educational & Career Assessment

Credit(s): 0 Class Hours: 3 Lecture total.

Assists students with appropriate educational placement and/or an overview of student services, career and academic guidance information that is available in Continuing Education as a result of individual and group testing. Open Entry/Open Exit.

CNSL 305

Orientation to College

Credit(s): 0 Class Hours: 8 Lecture total.

Introduces college services and programs. Identifies and explores programs and services designed to assist students entering college credit courses. 1.5 credits may be awarded. (Same as HSS770). Open Entry/Open Exit.

English As A Second Language (ESL)

ESL 120

ESL Civics

Credit(s): 0 Class Hours: 144 Lecture total.

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 in Beginning ESL 3 and above. Open Entry/Open Exit.

ESL 130

Topics in English As a Second Language

Credit(s): 0 Class Hours: 4-216 Lecture total.

A specialized course on topics related to current needs of English as a Second Language students. Open Entry/Open Exit.

ESL 300

Literacy

Credit(s): 0 Class Hours: 216 Lecture total.

The first of seven integrated ESL core courses. This is an ESL class for students who are not yet literate in English. Emphasizes communicative competence and basic functional language skills to meet immediate communication needs, including verbal and nonverbal strategies. Develops the ability of second language learners to recognize and read letters and numbers, copy and produce the alphabet, numerals, and simple personal information. Open Entry/Open Exit.

ESL 301

Beginning Low

Credit(s): 0 Class Hours: 216 Lecture total.

The second of seven integrated ESL core courses. For students with some literacy in English. Emphasizes language skills in everyday situations and immediate needs of adult English learners, focusing on listening comprehension and beginning oral production of simple conversations, reading of practiced words and phrases, and completing simple writing tasks in the context of school, work and community. Open Entry/Open Exit.

ESL 302

Beginning High

Credit(s): 0 Class Hours: 216 Lecture total.

The third of seven integrated ESL core courses. Emphasizes comprehending and participating in simple conversations, communicating survival needs, and reading and performing written tasks in the context of college and career readiness and civic participation. Open Entry/Open Exit.

ESL 303

Intermediate Low

Credit(s): 0 Class Hours: 216 Lecture total.

The fourth of seven integrated ESL core courses. Emphasizes comprehending and participating in conversations, communicating needs and opinions, reading from academic and informational text, and performing written tasks. Exposes students to authentic spoken and written content, to prepare students for college, the workplace, and civic participation. Open Entry/Open Exit.

ESL 304

Intermediate High

Credit(s): 0 Class Hours: 216 Lecture total.

The fifth of seven integrated ESL core courses. Emphasizes expanding oral language, critical and creative thinking skills in English, and reading comprehension of authentic academic and informational text. Written tasks focus on academic and workforce preparation, as well as increased community and civic participation. Five high school elective credits may be granted. Open Entry/Open Exit.

ESL 305

Advanced Low

Credit(s): 0 Class Hours: 216 Lecture total.

The sixth of seven integrated ESL core courses. Emphasizes higher-level language skills, reading passages with increased understanding and analysis, and improving academic and informational writing skills. Prepares students for academic and workforce success and increased civic participation. Five high school elective credits may be granted. Open-entry/open-exit. Open Entry/Open Exit.

ESL 306

Advanced High

Credit(s): 0 Class Hours: 216 Lecture total.

The seventh of seven integrated ESL core courses. Prepares students for academic and workforce success and civic participation. Emphasizes high-level language skills, conversations that convey complex thought patterns, and reading and writing strategies. This course uses authentic academic, informational and technical reading materials that expand the use of creative and critical thinking skills. Five high school elective credits may be granted. Open Entry/Open Exit.

ESL 392

Writing & Computers: Developing a School Publication

Credit(s): 0 Class Hours: 72 Lecture total.

Offers writing strategies for students in developing a student publication. Computers and the Internet are used to develop and research for publication. Students will work in teams on different sections of the publication. Recommended for students in Beginning ESL 3 or above. Open Entry/Open Exit.

ESL 398

ESL Community Learning Center

Credit(s): 0 Class Hours: 72 Lecture total.

This course provides English language learners of all levels the opportunity to improve their language skills, while increasing knowledge of civics, citizenship, and computer literacy, through individualized and small group instruction. Computer software and web-based instructional programs are used to instruct, support, and enhance student learning. Open Entry/Open Exit.

ESL 488

Basic Writing

Credit(s): 0 Class Hours: 72 Lecture total.

Introduce non-native English speakers to basic sentence structure and the writing process, focusing on writing cohesive simple paragraphs. This course is designed for basic writers. Students will produce a writing sample. Open Entry/Open Exit.

ESL 489

Intermediate Writing

Credit(s): 0 Class Hours: 72 Lecture total.

Recommended Preparation: ESL 488, Basic Writing or equivalent

Introduces non-native English speakers with intermediate writing skills to advanced sentence structures and writing strategies, focusing on strong paragraphs with logical development in a variety of organizational styles. Students will produce a writing sample. Open Entry/Open Exit.

ESL 490

Advanced Writing & Grammar

Credit(s): 0 Class Hours: 72 Lecture total.

This course will strengthen writing and grammar skills with a focus on advanced grammar and sentence combining strategies. Paragraph writing is emphasized. Recommended completion of Intermediate ESL 3 or equivalent. Five high school elective credits may be granted. Open Entry/Open Exit.

ESL 491

Advanced Writing & Grammar Review

Credit(s): 0 Class Hours: 72 Lecture total.

Provides intensive review and practice of writing strategies and basic grammar. Concentrates on paragraph writing along with verb tenses, adjective, noun and adverb clauses. Recommended completion of Intermediate ESL 3 or equivalent. Five high school elective credits may be granted if student passes the posttest for this class with 70% or better. Open Entry/Open Exit.

ESL 510

VESL: English for Work 1

Credit(s): 0 Class Hours: 216 Lecture total.

Prepares beginning level non-native English-speaking students to enter the workforce for general or specific occupations. Focuses on workplace communication, work-related vocabulary skills, job applications and postings, workplace safety and issues, and vocational readings with emphasis on verbal communication through basic language skills instruction. Open Entry/Open Exit.

ESL 520

VESL: English for Work 2

Credit(s): 0 Class Hours: 216 Lecture total.

Recommended Preparation: ESL 510, VESL: English for Work 1

Prepares intermediate and advanced level non-native English speaking students to enter the workforce or a CTE/vocational program. Focuses on communicating in the workplace, job safety, work-related vocabulary skills, workplace culture/issues, career pathways and vocational readings with emphasis on verbal communication through intermediate/advanced language skills instruction. Recommended for students in Intermediate 1 or higher. Open Entry/Open Exit.

ESL 530

American English Pronunciation

Credit(s): 0 Class Hours: 216 Lecture total.

Develops English language fluency, and productive and receptive skills as they relate to sound discrimination, sound inventory, stress, intonation, linking, prominence, and rhythm. The course aims to help students understand English and be understood while functioning within employment, survival and academic contexts. This course is recommended for Beginning ESL 3 students and above. Open Entry/ Open Exit.

ESL 570

Conversation 1

Credit(s): 0 Class Hours: 72 Lecture total.

Introduces conversational strategies in listening, language use, and non-verbal communication. Presents oral skills necessary in initiating, maintaining and closing conversations. Emphasis on oral skills that assist in social interactions and expand listening and speaking skills. This course is recommended for Beginning ESL 3 and Intermediate ESL 1 students. Open Entry/Open Exit.

ESL 580

Conversation 2

Credit(s): 0 Class Hours: 72 Lecture total.

Introduces advanced conversational strategies in listening, language use, and nonverbal communication. Presents oral expressions necessary to enhance conversation and listening skills. Emphasizes differences between formal and colloquial language, based on American attitudes and culture. Recommended for Intermediate ESL 2 and Intermediate ESL 3 students. Open Entry/Open Exit.

ESL 610

Grammar for Better Writing I

Credit(s): 0 Class Hours: 54 Lecture total.

Prerequisite: Qualifying profile from ESL/EMLS placement process.

Recommended Preparation: Concurrent enrollment in ESL 612 is recommended.

Sentence refining course for multilingual students who can speak English but often make grammar mistakes when writing. Basic grammar including verb tenses, verbals, modals, nouns, pronouns, compound and complex sentences. Revision and editing. Ten high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

ESL 611

Grammar for Better Writing II

Credit(s): 0 Class Hours: 54 Lecture total.

Prerequisite: EMLS 103 with a minimum grade of C or qualifying profile from ESL/EMLS placement test.

Recommended Preparation: Concurrent enrollment in ESL 613 is highly recommended.

Sentence refining course for bilingual students who can speak English but often make grammar mistakes when writing. Grammar focus is on sentence level accuracy, including transitions, the passive voice and multi-clause sentences. Revision and editing. Ten high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

ESL 612

College Reading and Writing I

Credit(s): 0 Class Hours: 90 Lecture total.

Prerequisite: Qualifying profile from ESL/EMLS placement process.

Recommended Preparation: Taking ESL 610 or prior to ESL 612 is highly recommended.

Reading and paragraph-level writing course for bilingual students who need to develop skills in reading academic material and writing academic paragraphs. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. Fifteen high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

ESL 613

College Reading and Writing II

Credit(s): 0 Class Hours: 90 Lecture total.

Prerequisite: EMLS 104 with a minimum grade of C or qualifying profile from ESL/EMLS placement process.

Recommended Preparation: Taking ESL 611 concurrently or prior to ESL 613 is highly recommended.

Reading and short essay-level writing course for bilingual students who need to improve skills in reading academic material and writing academic essays. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. Fifteen high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

ESL 704

Academic Beginning A

Credit(s): 0 Class Hours: 216 Class Lecture total.

First course of the academic ESL track program developing academic skills through reading short multi-sentence paragraphs supported by visual clues, writing simple sentences on one topic, grammar, listening, and speaking skills with short informational passages. Open Entry/Open Exit.

ESL 705

Academic Beginning B

Credit(s): 0 Class Hours: 216 Lecture total.

Second course of the academic ESL track program developing academic skills through reading multi-paragraph authentic and adapted texts, writing short loosely organized paragraphs from a prompt, grammar, listening, and speaking skills with short informational and narrative passages. Five high school elective credits may be granted if student passes the course. Open Entry/Open Exit.

ESL 706

Academic Intermediate A

Credit(s): 0 Class Hours: 216 Lecture total.

Third course of the academic ESL Track program developing academic skills through reading one-page multi-paragraph authentic or adapted text, writing well-developed paragraphs, grammar, listening, and speaking skills with short informational and narrative passages. Five high school elective credits may be granted if student passes the course successfully. Open Entry/Open Exit.

ESL 707

Academic Intermediate B

Credit(s): 0 Class Hours: 216 Lecture total.

Fourth course of the academic ESL Track program developing academic skills through reading two-page authentic texts, writing expository essays, grammar, speaking, and listening skills with short lectures or speeches on familiar and academic topics. Five high school elective credits may be granted if student passes the course successfully. Open Entry/Open Exit.

ESL 720

ESL Transition to College Class

Credit(s): 0 Class Hours: 72 Lecture total.

This noncredit course prepares students for transition to Santa Ana College by developing language skills, critical reasoning and thinking, academic study skills and student success strategies. Completion of Intermediate ESL 3 or equivalent is recommended. Five high school elective credits may be granted for successful completion of the class. Open entry/open exit.

High School Subjects - ARTS (HSART)

HSART 601

Music Theory 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

This class provides a beginning level music course that introduces students to the vocabulary and basic principles of music. The primary emphasis will be on rhythm, pitch, and notation. Open Entry/Open Exit.

HSART 828

Understanding America Through Art

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an overview of American civilization through arts and crafts from the colonial period through the 20th century, including periods and artistry in their historical context. Open Entry/Open Exit.

HSART 837

The Film As Art

Credit(s): 5.0 Class Hours: 72 Lecture total.

Traces the history of film from the recording of a single event through the silent film era to current classic films, and identifies the ways films reflect the values of American culture. Culminates in the use of classic and contemporary literature as a basis for modern film. Open Entry/Open Exit.

High School Subjects - English (HSENG)

HSENG 040

California High School Exit Exam Language Arts Preparation

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with an overview of the California State Standards that are tested on the California High School Exit Exam and affords students the opportunity to gain the knowledge and skills necessary to pass the Language Arts portion of the exam. Open Entry/Open Exit.

HSENG 065

English Fundamentals 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduces students to basic concepts and skills of building vocabulary, grammar, parts of speech, writing sentences, and paragraphs. Open Entry/Open Exit.

HSENG 066

English Fundamentals 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Reinforces and expands the basic concepts of sentence structure, vocabulary, grammar, parts of speech, and writing skills. Open Entry/Open Exit.

HSENG 067

English Fundamentals 3

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an intermediate English course that expands upon vocabulary, parts of speech, and grammar to accelerate writing skills. Open Entry/Open Exit.

HSENG 068

English Fundamentals 4

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an advanced course in English vocabulary, grammar, parts of speech, writing skills, and general proficiency in the English language, both written and spoken. Open Entry/Open Exit.

HSENG 070

The Short Story

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduces the student to the short story as a literary form so that the student will learn how the individual elements work together to present a theme of effect. The student will study the development of the short story and will read selected short stories from various periods. Course cannot be challenged. Open Entry/Open Exit.

HSENG 076

The Novel

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduces the student to the novel as a literary form and how the individual elements work together to present a theme. The student will select 2 novels from an annotated reading list for independent study, completing Dialectical Journal entries. Open Entry/Open Exit.

HSENG 083

Composition 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction and practice in the communication of ideas in written form. Emphasis on mastery of sentence and paragraph skills, including organization in terms of unity, support, and coherence in an effective, well-supported, one page composition. Open Entry/Open Exit.

HSENG 084

Composition 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Prepares the student to write well-conceived and well-executed two page essays. Meets the composition proficiency requirement. (Recommended for students who have completed Composition 1 or equivalent.). Open Entry/Open Exit.

HSENG 085

Composition 3

Credit(s): 5.0 Class Hours: 72 Lecture total.

Prepares college bound students with advanced writing assignments that require in-depth research culminating in the production of two argumentative essays and a 1500 word final argumentative research paper. (Recommended for students who have completed Composition 2 or equivalent.). Open Entry/Open Exit.

HSENG 096

Building Vocabulary 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

A basic vocabulary course that provides practice in using context clues to develop vocabulary, and includes practice in synonyms, antonyms, matching words with meaning, adding words to readings, and sentence writing. Open Entry/Open Exit.

HSENG 097

Building Vocabulary 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

An intermediate vocabulary course that provides practice in using context clues to develop vocabulary and includes practice in synonyms, antonyms, matching words with meaning, adding words to readings, analogies, and sentence writing. Develops vocabulary skills needed to master state standardized tests. Open Entry/Open Exit.

HSENG 098

Building Vocabulary 3

Credit(s): 5.0 Class Hours: 72 Lecture total.

An advanced vocabulary course that provides practice in using context clues to develop vocabulary, and includes practice in synonyms, antonyms, matching words with meaning, adding words to readings, analogies, and sentence writing. Builds reading comprehension skills and creates a strong vocabulary foundation that enables students to be better readers, writers, thinkers, and test takers. Open Entry/Open Exit.

HSENG 701

English 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the ninth grade year.

HSENG 702

English 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the ninth grade year.

HSENG 703

English 3

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the tenth grade year.

HSENG 704

English 4

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the tenth grade year.

HSENG 705

English 5

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the eleventh grade year.

HSENG 706

English 6

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the eleventh grade year.

HSENG 707

English 7

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the twelfth grade year.

HSENG 708

English 8

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the twelfth grade year.

High School Subjects - Math (HSMTH)

HSMTH 140

California High School Exit Exam Math Preparation

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with an overview of the California State Standards that are tested on the California High School Exit Exam and affords students the opportunity to gain the knowledge and skills necessary to pass the mathematics portion of the exam. Open Entry/Open Exit.

HSMTH 151

Principles of Mathematics

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course consists of addition, subtraction, multiplication, division of whole numbers, fractions, and decimals. Other topics include percentages, geometry, unit conversions, and signed numbers. Open Entry/Open Exit.

HSMTH 152

Pre-Algebra

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduction to variables, algebraic expressions, solving equations, inequalities, graphs, number and operation sense, estimation skills, and the ability to judge reasonableness of results will be strengthened in the context of practical applications and problem solving. Recommended for students who have completed Principles of Mathematics or equivalent. Open Entry/Open Exit.

HSMTH 154

Pre Algebra A

Credit(s): 5.0 Class Hours: 72 Lecture total.

Covers language, symbolism, and fundamental operations skills required to prepare students for success in Algebra 1. Number and operation sense, estimation skills, and the ability to judge reasonableness of results will be strengthened in the context of practical applications and problem solving.(Recommended for students who have completed Math Fundamentals 2 or equivalent.). Open Entry/Open Exit.

HSMTH 155

Pre Algebra B

Credit(s): 5.0 Class Hours: 72 Lecture total.

Covers language, symbolism, and fundamental operations skills required to prepare students for success in Algebra 1 and Geometry. Data analysis, spatial thinking, and the ability to judge reasonableness of results will be strengthened in the context of practical applications and problem solving. Recommended for students who have completed Pre-Algebra A or equivalent. Open Entry/Open Exit.

HSMTH 158

Math Fundamentals 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the four arithmetic operations of addition, subtraction, multiplication, and division of whole numbers and fractions and decimals. Provides learning activities including manipulative lessons which allow development and mastery of necessary skills. Open Entry/Open Exit.

HSMTH 159

Math Fundamentals 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the areas of decimals, percents, measurements, formulas, equations, ratios, and proportions. Provides learning activities which allow for remediation of difficulties and mastery of necessary skills. Recommended for students who have completed Math Fundamentals 1 or equivalent. Open Entry/Open Exit.

HSMTH 163

Algebra 1A

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in sets, numbers, formulas, monomials, exponents, square root, the laws of the signs, binomials, and simultaneous equations. Recommended for students who have completed Math Fundamentals 2 or equivalent. Open Entry/Open Exit.

HSMTH 164

Algebra 1B

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in algebra concepts, math vocabulary, and algebraic operations. This course is intended to be a bridge from basic arithmetic to elementary algebra. Open Entry/Open Exit.

HSMTH 165

Algebra 2A

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study in: equations and inequalities; linear equations and functions; systems of linear equations and inequalities; matrices and determinants; quadratic functions; polynomials and polynomial functions; and powers, roots and radicals. Recommended for students who have completed ten credits in geometry or equivalent. Open Entry/Open Exit.

HSMTH 166

Algebra 2B

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that includes: exponential and logarithmic functions; rational equations and functions; quadratic relations and conic sections; sequences and series; probability and statistics; trigonometric ratios and functions; and trigonometric graphs. Recommended for students who have completed Algebra 2A or equivalent. Open Entry/Open Exit.

HSMTH 167

Geometry A

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course covers topics in basic geometry, reasoning and proofs, perpendicular and parallel lines, congruent triangles, properties of triangles, and quadrilaterals. Recommended for students who have completed ten credits of algebra. Open Entry/Open Exit.

HSMTH 168

Geometry B

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course covers topics in transformations, similarity, right triangles, trigonometry, circles, areas of polygons and circles, surface area and volume. Recommended for students who have completed Geometry A or equivalent. Open Entry/Open Exit.

HSMTH 172

Basic Consumer Math 1A

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a comprehensive review of arithmetic skills that apply to personal and vocational opportunities. Topics covered include whole numbers operations, customary and metric units, fractions, decimals, and percents. Skills are then applied to use in earning money, buying food, shopping for clothes, managing a household, buying and maintaining a car, and working with food. Open Entry/Open Exit.

HSMTH 173

Basic Consumer Math 1B

Credit(s): 5.0 Class Hours: 72 Lecture total.

Students will use practical computational skills to solve common problems in a consumer's life including home improvements, traveling costs, budgeting household expenses, banking and investing, paying real estate and sales taxes, and preparing for careers. Open Entry/Open Exit.

High School Subjects - OTHER (HSOTH)

HSOTH 740

Spanish 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a beginning course in Spanish, emphasizing oral communication, vocabulary building, fundamental pronunciation, and grammar. Includes practice in reading and simple conversation and gives an introduction to Spanish-speaking people and their culture.

HSOTH 742

Spanish 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with additional skills, concepts, grammar and vocabulary appropriate for a first year course in learning to speak and write Spanish.

HSOTH 743

Spanish 3

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a language integrated course designed to provide native Spanish speaking students with academic language proficiencies. Offers listening, speaking, reading, writing, and critical thinking, and vocabulary development. Writing as a process and literature will be emphasized.

HSOTH 744

Spanish 4

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with additional skills, concepts, grammar and vocabulary appropriate for a second year course in learning to speak Spanish. (Recommended for those students who have completed Spanish 3 or equivalent.)

High School Subjects - Reading (HSRDG)

HSRDG 089

Reading Proficiency Development

Credit(s): 5.0 Class Hours: 72 Lecture total.

Enables students to become proficient in practical, content and reference skills as well as to improve general comprehension and vocabulary skills. This course is in preparation for the reading proficiency examination. Open Entry/Open Exit.

HSRDG 093

Building Reading Skills 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an opportunity for skill development in word recognition, comprehension, study and content reading skills necessary for success in the High School Subjects program. Computer-aided instruction is included. Open Entry/Open Exit.

HSRDG 094

Building Reading Skills 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an opportunity for skill development in word recognition, general and inferential comprehension, critical thinking, and content reading skills necessary for success in the High School Subjects program. Computer-aided instruction is included. Open Entry/Open Exit.

High School Subjects- Natural Sciences (HSSCI)

HSSCI 170

Biology 1A

Credit(s): 5.0 Class Hours: 72 Lecture total.

This is an introductory course that provides a brief survey of major areas of biology including cell biology, genetics, and evolution. Open Entry/Open Exit.

HSSCI 171

Biology 1B

Credit(s): 5.0 Class Hours: 72 Lecture total.

This introductory course studies the diversity of non-living and living organisms such as viruses, bacteria, protists, fungi, plants and animals. Open Entry/Open Exit.

HSSCI 185

Earth Science 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the principles and concepts of earth science. The earth's processes and place in the universe will be examined. Open Entry/Open Exit.

HSSCI 188

Earth Science 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the principles and concepts of earth science. The earth's matter and features will be examined. Open Entry/Open Exit.

HSSCI 190

Physical Science 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

An introductory course designed to allow students to explore the basic concepts of physical science. Basic elements of chemistry will be covered. Open Entry/Open Exit.

HSSCI 191

Physical Science 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

An introductory course designed to allow students to explore the basic concepts of physical science. Basic elements of physics will be covered. Open Entry/Open Exit.

HSSCI 192

Basic Science 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course offers students an introduction to the sciences. Science is explained in a way that is understandable to beginning students. Students taking this course will learn how science is all around us and can be found to affect our everyday life. In this course, students will learn about the different types of sciences: life, physical, earth and space. Open Entry/Open Exit.

HSSCI 196

Health Science

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a basic foundation in personal health, nutrition, body functions, first aid and community health. Open Entry/Open Exit.

HSSCI 197

Human Anatomy & Physiology I

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a first semester course concentrating on anatomical terminology, body directions, and the following systems: tissues, integumentary (skin), skeletal, nervous, and special senses. Diverse learning activities are used in the classroom to develop a variety of skills. Open Entry/Open Exit.

HSSCI 198

Human Anatomy and Physiology II

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a second semester course concentrating on anatomical terminology, body directions, and the following systems: muscular, cardio-vascular, lymphatic, respiratory, digestive, urinary, and reproductive. Diverse learning activities are used in the classroom to develop a variety of skills. Open Entry/Open Exit.

High School Subjects - Social Sciences (HSSOC)

HSSOC 215

Introduction to Economics

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduces the basic concepts of economics. Explores the basic questions of every economic system. Examines money, the role of consumers, workers, businesses, and governments. Open Entry/Open Exit.

HSSOC 218

U.S. History 1: Colonization to Industrialization

Credit(s): 5.0 Class Hours: 72 Lecture total.

Surveys events, movements, and personalities in the United States history from the colonial period through reconstruction, westward expansion, and industrialization. Includes immigration, the plight of Native and African Americans, reform movements, and geographical influences in the history of the United States. Open Entry/Open Exit.

HSSOC 219

U.S. History 2: The Shaping of Modern America

Credit(s): 5.0 Class Hours: 72 Lecture total.

Examines United States history from the beginning of industrialization to present. Emphasizes the emergence of America on the international, economic, geographical, social and political scene. Open Entry/Open Exit.

HSSOC 221

Psychology

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with knowledge of the basic principles of psychoanalysis, behaviorism, the interpersonal model, humanism, existentialism and phenomenology as well as other concepts applied to the self. Open Entry/Open Exit.

HSSOC 222

Government 1: U.S. Federal Government and Politics

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course in United States government and politics covers the Constitution and foundations of government, political behavior and participation, institutions of national government, civil liberties and civil rights and public policy and comparative government. Open Entry/Open Exit.

HSSOC 224

World Geography 1A

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a basic foundation for understanding physical geography and the cultural and economic variables in the relationship with the earth and its history. Introduces Northern America, Latin America, Europe, and Russia. Includes geography skills such as map reading, interpretation of graphs and diagrams, and map identification. Open Entry/Open Exit.

HSSOC 225

World Geography 1B

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an overview of certain areas of the world in terms of their physical, cultural, historical and economic geography. Introduces North Africa, the Middle East, Africa south of the Sahara, the Asian Region, and the Pacific World. Includes geography skills such as map reading, interpreting graphs, and analyzing data from a chart. Open Entry/Open Exit.

HSSOC 228

World History

Credit(s): 5.0 Class Hours: 72 Lecture total.

Offers the student a chronological understanding of world history in a sequence of events from the time before hominids became fully human, to the introduction to the new millennium. Addresses culture and geography in the context of world history. Open Entry/Open Exit.

HSSOC 231

Modern World History 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a study of the major events that shaped the modern world, from the eighteenth century through the First World War. Students will trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues. Open Entry/Open Exit.

HSSOC 232

Modern World History 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a study of the major events that shaped the modern world, from the end of the First World War to the present. Students will develop an understanding of current world issues and relate them to their historical, geographic,political, economic and cultural contexts. Students consider multiple accounts of events in order to understand international relations from a variety of perspectives. Open Entry/Open Exit.

High School Subjects (HSS)

HSS 010

Learning Skills & Strategies

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides individualized instruction to improve learning strategies and basic reading, writing, and mathematics skills. Prepares adults who have verified learning disabilities to successfully meet educational and vocational goals. Recommended for students who meet eligibility requirements for D.S.P.S. services. Open Entry/Open Exit.

HSS 031

High School Equivalency Test Preparation

Credit(s): 0 Class Hours: 360 Lecture total.

Provides pre- and post-testing and individualized prescriptive instruction in preparation for a High School equivalency exam. Covers test-taking strategies and the essentials of reading, writing, mathematics, science, and social studies. Open Entry/Open Exit.

HSS 032

HS Subjects Individualized Instruction

Credit(s): 0 Class Hours: 72 Lecture total.

Individualized delivery for the Adult High School Diploma Program. Designed for the adult who wants a high school diploma. Self-paced with offerings in the areas of English communication, mathematics, science, social studies, fine arts/foreign language, life skills, and electives. Recommended 8th grade equivalency on TABE. Open Entry/Open Exit.

HSS 090

Leadership Basics, Part 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduces useful leadership skills. Students will increase their mastery of basic skills through intensive, interactive, student-centered activities designed to give hands-on training and experience in aspects of directing and facilitating a conference. This is the first of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Five high school elective credits may be given for completing either ABE 044 or HSS 090 if the student achieves the attendance and proficiency requirements to pass the class. Open Entry/Open Exit.

HSS 092

Leadership Basics, Part 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Students will increase their mastery of basic skills through intensive, interactive, student-centered activities designed to give hands-on training and experience in aspects of directing and facilitating a conference. This is the second of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Five high school elective credits may be given for completing either ABE 018 or HSS 092 if the student achieves the attendance and proficiency requirements to pass the class. Open Entry/Open Exit.

HSS 095

Basic Skills Supervised Tutoring

Credit(s): 0 Class Hours: 1-72 Lecture total.

Supervised individual and small group tutoring to assist students in the basic skills of reading, writing, and mathematics for students enrolled at Santa Ana College School of Continuing Education and/or Santa Ana College course(s)for which tutoring is requested. Referral by counselor or instructor based on assessed academic need. Open Entry/Open Exit.

HSS 144

Topics in High School Subjects

Credit(s): 5.0 Class Hours: 72 Lecture total.

Varies according to topic. Specialized courses on topics related to the needs of students in High School Subjects. Open Entry/Open Exit.

HSS 221

Study Skills 1

Credit(s): 5.0 Class Hours: 72 Lecture total.

Develops student's study and test preparation skills. Introductory instruction in basic study skills, organizational skills,, goal setting, note taking, report writing, time management, test preparation, learning styles, effective communication skills. Provides learning opportunities for students to develop and master effective study skills for successful academic career achievement. Open Entry/Open Exit.

HSS 222

Study Skills 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Develops the student's study and test preparation skills. Second semester instruction in basic study skills, organizational skills, goal setting, note taking, report writing, time management, test preparation, learning styles, effective communication, and stress management skills. Provides learning opportunities for students to develop and master effective study skills for successful academic and career achievement. Open Entry/Open Exit.

HSS 229

Skills for Success

Credit(s): 5.0 Class Hours: 72 Lecture total.

Assists students in developing skills that promote academic success. Students will learn study and organizational skills, goal setting, critical thinking skills, and written/oral communication. Compensatory strategies and technology will be emphasized. Open Entry/Open Exit.

HSS 770

Orientation to College

Credit(s): 1.5 Class Hours: 8 Lecture total.

Introduces college services and programs. Identifies and explores programs and services designed to assist students entering college credit courses. Open Entry/Open Exit.

Health & Safety (SAFE)

SAFE 875

First Aid

Credit(s): 0 Class Hours: 15 Lecture total.

Provides students with general knowledge of basic first aid and CPR procedures. Open Entry/Open Exit.

SAFE 877

Health Issues & Concepts

Credit(s): 0 Class Hours: 72 Lecture total.

Provides a basic foundation in the issues and concepts of mental health, family and social health, the stages in the life cycle, medicine and drugs, and diseases and disorder. May earn five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

Home Economics (HOMEC)

HOMEC 520

HSS Consumer Education

Credit(s): 0.5 - 7.5 Class Hours: 24-360 Lecture total.

Prepares students in the rigors of understanding consumerism in the free world market area today. Topics include banking, credit, financial planning, insurance, money management, employment, real estate and housing, taxes, and other consumer interests. Open Entry/Open Exit.

Learning Support (LRN)

LRN 084

Composition 2

Credit(s): 5.0 Class Hours: 72 Lecture total.

Prepares the student to write well-conceived and well-executed five paragraph essays, expository paragraph writing emphasizing various methods including argumentation, reading analysis, and research. Practice in refining sentence skills and grammar. A minimum grade of B (80%) in LRN 84 will serve as a prerequisite to English 101 without a Placement Exam. Meets the composition proficiency requirement. Open Entry/Open Exit.

LRN 095

Supervised Tutoring

Credit(s): 0 Class Hours: 1-72 Lecture total.

Supervised individual and small group tutoring to assist students in reading, writing, mathematics, science, business and software applications for students enrolled at Santa Ana College School of Continuing Education and or Santa Ana College course(s) for which tutoring is requested. Referral by counselor or instructor based on assessed academic need. Open Entry/Open Exit.

LRN 164

Introductory Algebra

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in basic algebra concepts, math vocabulary, and algebraic operations. This course is intended to be a bridge from basic arithmetic to elementary algebra. Open Entry/Open Exit.

LRN 750

Intensive Writing and Grammar

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides intensive review and practice of writing strategies and advanced grammar. Concentrates on the writing process and development of various essay types along with verb tenses, adjective, noun, and adverb clauses. Recommended completion of ESL 707, HS English 067 and 068 or equivalent with a minimum passing grade. Open Entry/Open Exit.

Older Adults (OAP)

OAP 457

Music Arts for Older Adults

Credit(s): 0 Class Hours: 72 Lecture total.

Provides a positive framework for developing and enhancing music appreciation, vocal and instrumental skill. Emphasis will be on activities designed to encourage creative expression. Open Entry/Open Exit.

OAP 518

Creative Cooking for Older Adults

Credit(s): 0 Class Hours: 72 Lecture total.

Designed to enhance awareness of current cooking techniques. Demonstrations and lectures include information on basic nutrition and consumer awareness. A variety of cooking appliances and methods are utilized. Open Entry/Open Exit.

OAP 802

Seminar for Older Adults

Credit(s): 0 Class Hours: 72 Lecture total.

Provides information and a discussion forum related to the examination of concerns common to older adults. Discovers specific needs and interests and examines current news events as interpreted through historical background and current political/regional developments and changes. Open Entry/Open Exit.

OAP 823

Manipulative Skills for Older Adults

Credit(s): 0 Class Hours: 72 Lecture total.

Concentrates on maintenance and improvement of motor skills through utilization of a variety of art media and techniques. Provides opportunities for analysis and decision making skills while exercising basic manipulative skills. Open Entry/Open Exit.

OAP 894

Physical Fitness for Older Adults

Credit(s): 0 Class Hours: 72 Lecture total.

Teaches movement exercises designed to improve or maintain flexibility, strength, endurance and cardiovascular and respiratory functions. Emphasizes motor movements, hand-eye coordination, body space awareness, balance training, reaction time, joint protection, and relaxation techniques. Open Entry/Open Exit.

Parent Education (PRNT)

PRNT 527

Pre-Kindergarten

Credit(s): 0 Class Hours: 132 Lecture total.

Provides the opportunity for parents and others to learn the importance of providing appropriate early childhood experiences and preparing children for a successful kindergarten experience. Topics include school readiness, how to transform children's everyday world into an exciting learning environment, and how to stay positively involved in children's education. Open Entry/Open Exit.

PRNT 528

Increasing Parent Awareness of U.S. Schools

Credit(s): 0 Class Hours: 132 Lecture total.

Develops awareness of school systems in the United States. Introduces content standards and expectancies for different grade levels. Includes teaching and learning processes, strategies to support school children at home, pre-collegiate preparation of children, and college options. Open Entry/Open Exit.

PRNT 557

Early Childhood Education: Principles And Practices

Credit(s): 0 Class Hours: 96 Lecture total.

Bilingual (Spanish/English) course designed to introduce Spanish speaking students who are considering a career as teachers or aides to the scope of early childhood education. This class meets state licensing requirements for aides and limited-English caregivers in Early Childhood Education programs. May award five elective credits. Open entry/open exit (same as Human Development 070).

PRNT 558

Early Childhood Care and Development For Family Child Care Providers

Credit(s): 0 Class Hours: 56 Lecture total.

Provides knowledge about the care and development of young children for family child care providers seeking state licensing. Open Entry/Open Exit.

PRNT 562

Health Education for Family Child Care Providers

Credit(s): 0 Class Hours: 24 Lecture total.

Provides family child care providers with health and safety information related to licensing. Open Entry/Open Exit.

Secondary Subjects GED (HSGED)

HSGED 031

GED Test Preparation

Credit(s): 0 Class Hours: 360 Lecture total.

Provides pre- and post-testing and individualized prescriptive instruction in preparation for the GED test. Covers test-taking strategies and the fundamentals of social studies, mathematics, science, writing, and reading. Open Entry/Open Exit.

Substantial Disabilities (SSD)

SSD 350

Signing Exact English for Parents of Deaf Children

Credit(s): 0 Class Hours: 50-60 Lecture total.

Designed as an introductory course to teach Signing Exact English and the manual alphabet. Open Entry/Open Exit.

SSD 400

Developmentally Disabled Adults Job Coach Training

Credit(s): 0 Class Hours: 180-244 Lecture total.

Students will develop knowledge of and acquire the necessary skills to assist developmentally disabled clients in their daily lives. Open Entry/Open Exit. Open Entry/Open Exit.

SSD 495

Personal Development & Grooming for Developmentally Disabled Adults

Credit(s): 0 Class Hours: 65-95 Lecture total.

Provide adults with developmental disabilities tools to learn and practice positive interpersonal skills, appropriate social interaction and daily personal grooming habits. Open Entry/Open Exit.

SSD 788

Independent Living Skills for Adults With Developmental Disabilities

Credit(s): 0 Class Hours: 180 Lecture total.

Assists adults with developmental disabilities to attain a higher functional level for independent living in these areas: health and nutrition, personal appearance, communication, manners, money management, safety and consumer awareness, transportation, social interaction and practical reading, writing and math skills related to home and community settings. Open Entry/Open Exit.

SSD 792

Handicapped Adults Topics

Credit(s): 0 Class Hours: 72-216 Lecture total.

Specialized course on topics related to the needs of students in Handicapped Education. Open Entry/Open Exit.

Vocational - Business (VBUS)

VBUS 118

Introduction to Windows

Credit(s): 0 Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers

Provides students with a complete introduction to Microsoft's new operating system and basic computer concepts to ensure students develop the skills they need to effectively use a computer. The beginning of the course focuses on skills and tools that students will use every day, aiding productivity in school and at work. These features include starting and properly shutting down the computer, logging in, using a mouse, navigating the desktop, program controls, working with menus, using the taskbar, basic word processing, switching between apps, working with apps, using email, and email safety. As students advance in the course, file management and organization is reviewed where students save files and create folders both on the local PC and in the cloud. Microsoft's web browser, focusing on effective web searches, how to protect against internet threats, Outlook Online, Word Online, OneDrive, and how to manage setting and preferences within Windows are covered as well. Four high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

VBUS 123

Introduction to Computer Software Applications

Credit(s): 0 Class Hours: 72 Lecture total.

Provides introductory instruction on industry-standard computer applications such as MS Word, MS Excel, MS PowerPoint, MS Internet Explorer, MS Publisher, Adobe Photoshop, Adobe Illustrator, Adobe Flash, and others as well as skills such as keyboarding. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

VBUS 124

Introduction to Keyboarding I

Credit(s): 0 Class Hours: 32 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers

Provides introductory instruction for keyboarding by touch and skill building drills to achieve speed and accuracy. Emphasis is placed on proper posture, typing on a computer without looking at the keyboard, and using proper finger and hand placement. Two high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

VBUS 125

Introduction to Keyboarding II

Credit(s): 0 Class Hours: 45 Lecture total.

Recommended Preparation: VBUS 124 Keyboarding I

Provides additional practice in keyboarding by touch through the production of business and academic documents and tables. All students learn Microsoft Word as they advance through the course. Extensive accuracy and speed development is offered. Three high school elective credits may be awarded if a student completes all the requirement assignments and passes the final exam. Open Entry/Open Exit.

VBUS 200

Topics in Career Technical Education

Credit(s): 0 Class Hours: 72-216 Lecture total.

Varies according to topic. Specialized courses on topics related to the needs of students in the Business Skills program. Open Entry/Open Exit.

VBUS 243

Introduction to Customer Service Skills

Credit(s): 0 Class Hours: 60 Lecture total.

Provides basic customer service training in: achieving high customer satisfaction; developing strong listening and communication skills; developing effective telephone skills; handling difficult customer situations; solving and preventing incidents and problems; working in a team; and minimizing stress and avoiding burnout. Four high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

VBUS 244

Introduction to Databases Using Microsoft Access

Credit(s): 0 Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows, VBUS 262 Introduction to Spreadsheets Using MS Excel

This course is an introduction to Microsoft Access – a database management system. Students will learn how to: design and use databases by creating tables, queries, forms and reports; create relationships between tables; and sort and filter data. Businesses use relational databases to manage their data. This course prepares students to understand and use Microsoft Access and databases in general, thereby assisting them in workforce preparation. Four high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

VBUS 245

Introduction to Desktop Publishing Using Microsoft Publisher

Credit(s): 0 Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows, VBUS 260 Introduction to Word Processing Using MS Word

This course introduces students to Microsoft Publisher which is a desktop software application. Students obtain the skills to create and produce publications such as flyers, newsletters, brochures, greeting cards, certificates, newsletters, invitations, and other printed publications. Four high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

VBUS 258

Navigating the Internet

Credit(s): 0 Class Hours: 36 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers

Provides students with a basic introduction to accessing and using the internet. Topics include basic internet terms and concepts, browsing the Web, searching the Web, and communicating online. Two high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

VBUS 259

Orientation to Computers

Credit(s): 0 Class Hours: 60 Lecture total.

This course is designed to familiarize students with the fundamentals in computer hardware and software. It also introduces the Windows operating system, Microsoft Word application, email, and internet. Four high school elective credits may be awarded if student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

VBUS 260

Introduction to Word Processing Using MS Word

Credit(s): 0 Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers

This course provides instruction in concepts and techniques of Microsoft Word. Students will learn procedures of creating, editing, and formatting office/business documents of varying complexities. They will create business letters and tables, use mail merge, illustrate documents with graphics, and more. Four high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

VBUS 262

Introduction to Spreadsheets Using MS Excel

Credit(s): 0 Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows

Provides students with instruction to spreadsheet concepts and software using Microsoft Office Excel. Students will learn how to create a worksheet, use formulas and functions, insert charts and tables, and more. Four high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

VBUS 270

Introduction to Microsoft Outlook

Credit(s): 0 Class Hours: 72 Lecture total.

Students will learn the basics to manage and organize emails, calendars and contact information. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

VBUS 280

Accounting Terminology

Credit(s): 0 Class Hours: 36 Lecture total.

This is a beginning accounting course designed for students with little or no accounting background. It introduces and provides an understanding of accounting terminology to prepare students for accounting occupations and accounting coursework. Open Entry/Open Exit.

VBUS 290

Business Terminology

Credit(s): 0 Class Hours: 48 Lecture total.

An introductory course to commonly used business terms with the intent of helping students develop a viable business vocabulary and how they can be effectively used in the workplace and for career advancement. Open Entry/Open Exit.

VBUS 301

Business Skills

Credit(s): 0 Class Hours: 288 Lecture total.

Includes keyboarding, filing, ten-key, spelling, written communications, Internet communications, accounting procedures and other related new business technology applications. Recommended for ESL Beginning 3 level or equivalent. Open Entry/Open Exit.

VBUS 302

Introduction to Web Page Development Using HTML

Credit(s): 0 Class Hours: 60 Lecture total.

Provides introductory instruction to web page development. Topics include web page design elements; HTML; graphic images, movie and sound formats; and testing pages on cross platforms. Designed for students who have completed a basic computer course or equivalent. Open Entry/Open Exit.

VBUS 303

Introduction to Electronic Imaging Using Adobe Photoshop

Credit(s): 0 Class Hours: 60 Lecture total.

Provides introductory instruction to electronic imaging using Adobe Photoshop software. Topics include beginning Photoshop features, scanner basics, image and file formats, color, importing/exporting of files, and printing. Designed for students who have completed a basic computer operations course or equivalent. Open Entry/Open Exit.

VBUS 304

Introduction to Electronic Presentations Using Powerpoint

Credit(s): 0 Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows

Provides students with instruction on how to use PowerPoint features (e.g., templates, layouts, pictures, graphics, animation, multi-media assets) to create engaging presentations. Students will also discuss best practices for using PowerPoint as a visual aid for any presentation. Four high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

VBUS 340

Career Exploration

Credit(s): 0 Class Hours: 5 Lecture total.

This is a course designed to assist students in understanding opportunities available to them in different career and educational areas. Students will also learn about and be exposed to existing career technical education (CTE) pathways and how to successfully transition into a credit CTE program of study. Students will explore available occupations, careers, educational or training programs using a variety of available sources, such as interviews with business or college representatives, job shadowing, tours, guest speakers, and career and educational fairs/events. Open Entry/Open Exit.

VBUS 400

Employability Skills

Credit(s): 0 Class Hours: 48 Lecture total.

Prepares students with the knowledge, work habits, and character traits that are necessary to succeed in the rapidly changing workplace and global economy of the 21st century. Students learn the 21st century soft skills that are critical for the demands of today's work environment. In addition, it teaches workforce preparation such as resume development, cover letter, interview techniques, job search strategies, networking, and elevator speech. Three high school elective credits may be awarded if a student completes all the required assignments and final project. Open Entry/Open Exit.

VBUS 450

Hardware & Software A+ Preparation, Review, Practice

Credit(s): 0 Class Hours: 72 Lecture total.

Course provides instruction in computer hardware and software preparation, review, and practice for taking the A+ certification test. Training includes review and practice of upgrading, troubleshooting, and repair of computers; setting up home and small office networks; installation and familiarization of various Operating Systems; Applications, and Utilities. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

VBUS 500

Digital Literacy for Academic and Professional Success - Tier 1

Credit(s): 0 Class Hours: 36 Lecture total.

The first integrated digital literacy course that prepares students for academic and workplace success by providing instruction on the fundamental technology skills needed to be digitally literate. Topics covered include: computer and smart phone functionality; introduction to the internet; the internet to find information; mobile applications for language learning; email creation and usage; online forms; video and audio sharing sites for language learning; social media for information; word processing applications; and introduction to online educational applications. Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

VBUS 501

Digital Literacy for Academic and Professional Success - Tier 2

Credit(s): 0 Class Hours: 36 Lecture total.

The second integrated digital literacy course that prepares students for academic and workplace success by providing instruction on the primary technology skills needed to enhance digital literacy. Topics covered include: review of topics covered in Digital Literacy for Academic and Professional Success - Tier I; the internet to search and evaluate information; mobile applications for learning and productivity; email etiquette for social and professional exchanges; online applications for synchronous communication; social media for civic and professional engagement; use word processing programs for academic and career readiness; online educational applications for collaboration; and overview of learning management systems (e.g., Canvas). Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

VBUS 502

Digital Literacy for Academic and Professional Success - Tier 3

Credit(s): 0 Class Hours: 36 Lecture total.

The third integrated digital literacy course that prepares students for academic and workplace success by providing in depth instruction on a range of technology skills needed to further enhance digital literacy. Topics covered include: review of topics covered in Digital Literacy for Academic and Professional Success - Tier I and II; internet safety and one's digital footprint; plagiarism in the Digital Age; use word processing programs for academic and career readiness; email and text communication - social and professional standards; introduction to online conferencing; introduction to blogging and wikis; expansion and application of online educational programs; and learning management systems - navigation and participation. Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

VBUS 503

Digital Literacy for Real World Application - Tier 4

Credit(s): 0 Class Hours: 36 Lecture total.

The final of four integrated digital literacy courses. In this course, students will employ the knowledge and skills acquired in Digital Literacy for Academic and Professional Success Tiers 1 through 3 to create a professional portfolio online. Instruction will focus on the technology and interpersonal skills needed to create an online presence necessary for academic and workplace success in the 21st century. Specifically, the following will be reviewed: topics covered in Tiers 1, 2 and 3; website creation to create an online portfolio; formatting and design standards for resumes; social media platforms to build a professional presence online; online professional networking through personal connections; and understanding how to use learning management systems through participation and collaboration. Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

VBUS 559

Business Practices in Family Child Care

Credit(s): 0 Class Hours: 36 Lecture total.

Provides potential family child care providers with information and skills necessary for successful operation of a family child care business. Open Entry/Open Exit.

VBUS 574

Computer Basics: Hardware & Software

Credit(s): 0 Class Hours: 192 Lecture total.

Provides instruction in maintenance, repair, and upgrading of personal computers. Emphasizes functional operations of hardware and software components. Includes hands-on experience with upgrading and repair of computers. Upon completion of course requirements a student may be awarded 5 high school elective credits. Open Entry/Open Exit.

VBUS 576

Computer Basics: Systems and Networking Essentials

Credit(s): 0 Class Hours: 90 Lecture total.

Course provides baseline level of knowledge for networking certifications, including MCSA, MCSE, CNA and CCNA designations. The focus is also on networking operating systems including Microsoft Windows and Linux. This class is for students with knowledge of computer repair and troubleshooting. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

VBUS 590

Introduction to How to Start a Small Business

Credit(s): 0 Class Hours: 72 Lecture total.

Provides an introductory series of classes focusing on specific topics addressing the needs of individuals desiring to start a small business. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

VBUS 668

Introduction to Automotive Vehicle Systems

Formerly: Introduction to Automotive Vehicle Maintenance

Credit(s): 0 Class Hours: 72 Lecture total.

Introduction to the primary automotive systems used on modern vehicles. Theory, parts nomenclature, and description of system operation are emphasized. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 70%. Open Entry/Open Exit.

VBUS 680

Basic Machining Concepts and Operations

Credit(s): 0 Class Hours: 144 Lecture total.

Fundamental operations on lathes, milling machines, grinders, and drill presses, including precision measurements and layout. Equips students with skills and theory necessary to enter or upgrade within the machinist trade. (Same as MNFG 158). Open Entry/Open Exit.

Vocational - Construction (VCNST)

VCNST 610

Vocational Construction Technology Module I

Credit(s): 0 Class Hours: 88 Lecture total.

Provides basic introduction to construction technology including Occupational Safety and Health Administration (OSHA)standards, first aid, and the proper use of hand and power tools. Introduces basic theory and tools for use in concrete and electrical work. May earn five high school credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

VCNST 620

Vocational Construction Technology Module II

Credit(s): 0 Class Hours: 192 Lecture total.

Provides basic instruction with practical experience in building foundations, framing, and installing drywall, including completion of project(s). Recommended for those who have completed Vocational Construction Technology Module I, or those who have the instructor's approval by standard assessment. May earn five high school credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

VCNST 630

Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology

Credit(s): 0 Class Hours: 288 Lecture total.

This course is designed to provide students with entry-level skills in the repair and servicing of heating, ventilating, air-conditioning, and refrigeration (HVAC-R) equipment used in residential, industrial and commercial buildings. Twenty high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

Vocational - Food (VFOOD)

VFOOD 005

ServSafe Food Handler

Credit(s): 0.0 Class Hours: 36 Lecture total.

This course prepares students for employment in commercial and institutional food kitchens. It includes employee terminology, responsibilities, and training when preparing, handling, and serving food to the public. The course covers six key areas: basic food safety; good personal hygiene; controlling time and temperature; preventing cross-contamination; cleaning and sanitizing; and detailed food industry safety guidelines. It prepares students for the ServSafe Food Handler Certification. Two high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

VFOOD 200

Line Cook Training

Credit(s): 0.0 Class Hours: 60 Lecture total.

This course provides instruction on the different aspects of food preparation, as well as methods of presenting and serving food properly. Students will also receive training in the following types of cooking stations: grill, pantry, sauté, fry, and preparation. Four high school elective credits may be awarded if a student passes the courses with a minimum grade of 70%. Open Entry/Open Exit.

VFOOD 210

ServeSafe Food Protection Manager Certification Exam Preparation, Review, & Practice

Credit(s): 0.0 Class Hours: 54 Lecture total.

This course prepares students for the ServSafe® Food Protection Manager Certification Exam. The certification will allow students to obtain employment in commercial and institutional food kitchens. The following areas will be covered: foodborne microorganisms and allergens; purchasing, receiving, and storing food; preparing, cooking, and serving food; cleaning and sanitizing facilities; and learning about pest control methods. Three high school elective credits may be awarded if a student passes the course with a minimum average of 70% in all coursework. Open Entry/Open Exit.

Vocational - Health (VHLTH)

VHLTH 100

Topics Health Services

Credit(s): 0 Class Hours: 72-216 Lecture total.

A specialized course on topics related to the current needs of the students in the Business Skills and Health Services programs. Open Entry/Open Exit.

VHLTH 101

Overview of the Nursing Assistant Training Program

Credit(s): 0 Class Hours: 10 Lecture total.

This course is designed to provide an introduction to the clinical and theoretical requirements for the Certified Nursing Assistant (CNA) Training Program. Open Entry/Open Exit.

VHLTH 102

Certified Nursing Assistant (CNA) Training

Credit(s): 0 Class Hours: 184 Lecture total.

Prerequisite: VHLTH 101 Overview of the Nursing Assistant Training Program.

Designed for students who want to become Certified Nursing Assistants (CNA). This course includes theory and clinical segments designed to prepare them to complete the CNA certification and potentially seek employment as entry-level healthcare assistants. Upon completion, the student will be prepared to take the California certification exam. Students must complete all lecture hours and clinical training hours to be eligible to take the certification exam. Ten high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

VHLTH 109

Introduction to Caregiving

Credit(s): 0.0 Class Hours: 24 Lecture total.

This course is designed to prepare students to assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. Duties performed at a place of residence may include up keeping the house (e.g., making beds, doing laundry, washing dishes) and preparing meals. Topics covered include methods of advising families, the elderly, convalescents, and persons with disabilities regarding such topics as nutrition, cleanliness, and household activities. One high school elective credit may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

VHLTH 110

Caregiver Training

Credit(s): 0.0 Class Hours: 34 Lecture total.

Prerequisite: VHLTH 109, Introduction to Caregiving

This course is designed to provide students with hands-on experience as caregivers. Students will apply caregiver skills in a simulated caregiving environment. Two high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

VHLTH 704

Introduction to Biotechnology

Credit(s): 0.0 Class Hours: 50 Lecture total.

This course is a general examination of biology as it relates to the field of biotechnology. Topics include the fundamental chemical processes common in prokaryotic and eukaryotic biology, chemistry of bio-molecules (proteins, enzymes, nucleic acids and lipids), cellular and molecular biology, basic immunology, and classical and molecular genetics with an emphasis on gene expression and genetic engineering. Open Entry/Open Exit.

VHLTH 705

Introductory Biotech Lab

Credit(s): 0.0 Class Hours: 54 Lecture total.

Prerequisite: VHLTH 704, Introduction to Biotechnology

Corequisite: VHLTH 704, Introduction to Biotechnology

This laboratory is a general examination of biology as it relates to the field of biotechnology. The laboratory addresses basic skills and techniques common to the biotechnology industry. Topics include the measurement of activity and quantity of proteins, growth and manipulation of bacteria, genetic engineering and antibody methods. This course is intended as a laboratory class for students majoring in applied biology and as a general education laboratory option for all students. Open Entry/Open Exit.

VHLTH 799

Introduction to Pharmacy Technology

Credit(s): 0 Class Hours: 32 Lecture total.

Overview of the SAC Pharmacy Technician training program. Definition of the roles and preview of the opportunities open to pharmacy technicians in various practice settings. Presentation of the pharmaceutical dosage forms, the drug development process, and drug classification systems. Introduction to prescription labeling and to the law and ethics of pharmacy practice (Same as Pharmacy Technology 048). Open Entry/Open Exit.

VHLTH 896

Paraprofessional Mental Health Worker II

Credit(s): 0 Class Hours: 128 Lecture total.

Provides students with basic case management skills for employment as paraprofessional mental health workers. Recommended completion of Paraprofessional Mental Health Worker I. Recommended English proficiency level to be Intermediate and above. May earn five high school elective credits if a student completes all the required assignments and passes the final exam and/or project with a minimum passing grade of 70%. Open Entry/Open Exit.

VHLTH 897

Paraprofessional Mental Health Worker III

Credit(s): 0 Class Hours: 128 Lecture total.

Provides students with basic facilitation and counseling skills for employment as paraprofessional mental health workers. Focuses on group and peer counseling. Recommended completion of Paraprofessional Mental Health Worker I. Recommended English proficiency level to be Intermediate and above. May earn five high school elective credits if a student completes all the required assignments and final exam and/or project with a minimum passing grade of 70%. Open Entry/Open Exit.

Vocational - Hospitality (VHOSP)

VHOSP 201

Career Focus - Hospitality Services

Credit(s): 0.0 Class Hours: 60 Lecture total.

This course provides students with an overview of the diverse career opportunities in food and lodging services. Students will develop a personal educational preparation and career plan. Topics include food service operations, management basics, and the hotel and lodging industry. The course also covers aspects of hospitality management, such as business structures and operations, human resources, and workplace safety. Four high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

Santa Ana College Administrators

Becerra, Rosio (2018)
Director, Special Programs
Academic Talent Search
B.A., M.A., California State University, Dominguez Hills

Chavez, Lorena (2017)
Director, Special Programs
Santa Ana College/School of Continuing Education
B.A., Loyola Maymount University
M.A., California State University, Long Beach

De La Rosa, Jennifer (2018)
Associate Dean, Student Development
A.A., Coastline Community College
B.S., Azusa Pacific University
M.S.W., University of Southern California

Dela Cruz, Maria (2016)
Dean, Counseling
B.A., Pepperdine University
M.A., California State University, Long Beach
Ph.D., University of Southern California

Dower, Kellori (2019)
Dean, Fine and Performing Arts
B.A., San Diego Christian College
M.Ed., National University
Ed.D., Northcentral University

Eidgahy, Saeid Y. (2019)
Dean, Science, Mathematics and Health Sciences
B.S., Bowling Green State University
M.Ed., Bowling Green State University
Ph.D., Bowling Green State University

Estrada, Brenda S. (2016)
Director of Special Programs, Veterans Resource Center
B.S., California State University, Fullerton
M.S.Ed. California State University, Fullerton
Ed.D., California State University, Long Beach

Flores, Marilyn (2013)
Interim President
B.A., University of California, Riverside
M.A., University of California, Los Angeles
Ph.D., University of California, Riverside

Galván, Javier A. (1996)
Interim Dean of Humanities and Social Sciences
B.A., California State University, Los Angeles
M.A., M.S., Ph.D., University of Southern California
M.A., California Polytechnic State University, Pomona

Gaspar, Mario (2018)
Director, Physical Plant and Facility
B.S., University of Phoenix
M.B.A., University of Phoenix

Grant, Madeline A. (2001)
Dean, Business Division
B.A., University of San Diego
M.B.A., Claremont Graduate School

Hoffman, Simon B. (2005)
Vice President, Administrative Services
B.S., California State University, Long Beach
M.B.A., University of Phoenix
Ed.D., California State University, Fullerton

Hubbard, Vaniethia (2018)
Vice President, Student Services
B.A., California State University, Fullerton
M.S.W., Clark Atlanta University
Ed.D., California State University, Fullerton

Kennedy, James (2007)
Vice President, School of Continuing Education,
Santa Ana College
B.A., Sonoma State University
M.B.A., University of Phoenix
Ed.D., California State University, Fullerton

Kosko, Christine (2011)
Dean, Instruction and Student Services,
Santa Ana College/School of Continuing Education
B.S., University of Phoenix
M.A., National University

Kruizenga, Alicia (2017)
Dean, Student Affairs
A.A., Cypress College
B.A., California State University, Fullerton
M.A., Brandman University

Lamb, Jeffrey N (2018)
Vice President, Academic Affairs
B.A., California State University, Long Beach
M.A., San Diego State University
Ph.D., University of California, Los Angeles

Leon, Christine (2013)
Associate Dean, EOPS/CARE and CalWORKs
B.A., M.S.W., University of California, Los Angeles

Liang, Mark (2006)
Dean, Enrollment Services
B.A., California State University, Fullerton
J.D., Trinity International University, School of Law

Manning, R. Douglas (2017)
Dean, Kinesiology and Athletics
B.S., Florida State University
M.S., Florida State University
Ph.D., University of New Mexico

Manson, Robert (2006)
Associate Dean, Financial Aid
B.A., California State University, Fullerton
M.B.A., Chapman University

Mathews, Kimberly (2013)
Director, Special Programs
Career Education & Workforce Development
B.A., University of Notre Dame
M.A., University of Redlands

Oforlea, Veronica (2016)
Associate Dean, Disabled Students Program & Services (DSPS)
B.A., California State University, San Bernardino
M.S., Western University of Health Sciences, Pomona
Ed.D., California State University, Stanislaus

Ortiz, Fernando D. (1996)
Dean, Academic Affairs
A.A., Santa Ana College
B.A., California State University, Fullerton
M.A., Ph.D., University of California, Riverside

Paramore, Stephanie (2019)
Dean, Instruction and Student Services
Santa Ana College/School of Continuing Education
B.A., University of California, Santa Barbara
M.A., San Diego State University

Romero, Christina (2003)
Executive Director, College Advancement
A.A., Santa Ana College
B.A., California State University, Long Beach
M.A., University of Redlands

Sergeyeva, Larisa (2019)
Dean, Human Services and Technology
B.S., Hope International University
M.A., Hope International University
Ed.D., Argosy University

Soto, Armando (2019)
Associate Dean of Counseling
A.A., Southwestern College
B.A., University of California, Berkeley
M.A., San Diego State University
Ed.D., University of Southern California

Virgoe, Brad (2018)
Director, Criminal Justice Academies
B.S., University of Redlands
M.A., California State University, Dominguez Hills

Winchell, Timothy (2018)
Associate Dean, Criminal Justice Academies
Graduate - Northwestern School of Police Staff and Command
M.P.A., University of Washington
Ph.D., Portland State University

SANTA ANA COLLEGE FACULTY

Abbey, Troy (2001)
Professor, Kinesiology
B.A., California State University, Long Beach
M.A., Azusa Pacific University

Alduenda, Leann (2015)
Associate Professor, Dance
B.A., University of California, Riverside
M.F.A., University of California, Irvine

Andrade, Philippe (2007)
Associate Professor, Political Science
B.A., California State University, Long Beach
Ph.D., Claremont Graduate University

Aguilar Beltran, Maria (2008)
Professor/Coordinator, Assessment Center
B.A., California Polytechnic State University, Pomona
M.S.W., California State University, Long Beach
L.D., Certificate, California State University, Sacramento

Arazi, Heather (2019)
Assistant Professor, American Sign Language
B.A., Gallaudet University
M.A., California State University, Northridge
M.A., University of Phoenix

Axtell, Christina (2014)
Associate Professor, English
A.A., Santiago Canyon College
B.A., University of California, Los Angeles
M.A., California State University, Fullerton

Barnard, Rebecca (2012)
Coordinator, Health and Wellness Center
B.S.N., Point Loma Nazarene University
M.S.N., Azusa Pacific University
D.N.P., Azusa Pacific University

Barraza, Gregory (2019)
Coordinator, Inmate Education
B.A., Chapman University
M.F.A., Chapman University
M.S., California State University, Fullerton
Ph.D., Chapman University

Barrios, Andrew (2018)
Assistant Professor, Biology
B.S., California State University, Fullerton
M.S., California State University, Fullerton

Bass, Stacey (2006)
Professor, Nursing
B.S.N., Loma Linda University
M.S.N., California State University, Long Beach
D.N.P., Western University of Health Sciences

Bassett, Dana (2001)
Professor, English
B.A., M.A., California State University, Fullerton

Bautista, Steve (2001)
Counseling
B.A., M.S., California State University, Fullerton

Baquero, Jaymie (2014)
Assistant Professor, Kinesiology
B.A., Loyola Marymount University
M.A., California State University, Long Beach

Beltran, Jennie (2014)
Associate Professor, Biology
B.S., M.S., University of California, Irvine

Bennett, Gary (1998)
Professor, English
B.A., M.A., California State University, Fullerton
Ph.D., University of Nevada at Las Vegas

Bennett, Sarah (2016)
Assistant Professor, Communications and Media Studies
B.A., M.A., University of Southern California

Benson, Kyla (2013)
Associate Professor, Fashion Design Merchandising
B.S., University of California, Davis
M.A., Trident University International

Beyersdorf, Matthew A. (2006)
Professor, English
A.A., Saddleback College
B.A., M.A., Chapman University
J.D., Chapman University School of Law
Member of the California State Bar

Bittner, Mathew (2019)
Assistant Professor, Automotive Technology
A.S., Cypress College

Bootman, Ashly (2015)
Associate Professor, English
B.A., University of California, Riverside
M.A., California State University, Fullerton

Bradley, Kyle (2014)
Associate Professor, Mathematics
B.A., M.A., California State University, Fullerton

Brandon, Kelly (1989)
Professor, English
B.A., University of California, Los Angeles
M.A., University of California, Santa Barbara

Breig, David B. (2002)
Professor, Kinesiology
A.A., Cerritos College
B.A., Seattle Pacific University
C.C.T.C., California State University, Dominguez Hills
M.S., California State University, Fullerton

Briones, Michael (2016)
Assistant Professor, Music
B.M., California State University, Long Beach
M.M., Azusa Pacific University

Brocatto, Carlos (2018)
Assistant Professor, Philosophy
B.A., University of California, Riverside
M.A., California State University, Los Angeles

Brown, Angela T. (2001)
Counseling
A.A., Citrus College
B.S., University of California, Riverside
M.A., California State University, San Bernardino

Buechler, Michael (2014)
Associate Professor, Manufacturing Technology
A.S., Fullerton College

Bui, Annette (2017)
Assistant Professor, Counseling
A.A., Santa Ana College
B.A., California State University, Fullerton
M.A., California State University, Dominguez Hills

Campbell, Alondo C. (2013)
Associate Professor, Sociology
A.A., Golden West College
B.A., California State University, Long Beach
M.A., California State University, Fullerton
Ph.D., Purdue University

Campos-Robledo, Joanna (2013)
Counseling
B.S., California State University, Fullerton
M.A., Claremont Graduate University
M.S., University of La Verne

Cannon, Chris (2011)
Associate Professor, Theatre Arts
B.A., Southeastern University
M.F.A., University of Virginia

Canzona, Paula (1998)
Counseling
B.S., University of Redlands
M.A., California State University, Dominguez Hills

Carriger, Lisa (2017)
Assistant Professor, RN, MSN
A.D.N., Saddleback College
B.S.N., University of Texas Arlington
M.S.N., University of Texas Arlington

Castellanos, Mary (1979)
Counseling
B.A., San Diego State University
M.S., California State University, Fullerton
Ph.D., United States International University

Cass, Ann (2019)
Counseling
B.A., Cal State University, Long Beach
M.S., National University

Castillo, Ricardo (2011)
Professor, Psychology
B.A., California State University, Bakersfield
M.A., California State University, Fullerton

Chakhad, Mohamed (2020)
Assistant Professor, Physics
B.S., University of Mary Washington
Ph.D., University of Texas

Chamberlain, Amberly (2017)
Assistant Professor, Theatre Department
A.A., Fullerton College
B.A., California State University, Fullerton
M.F.A., California State University, Long Beach

Clark, Stephanie (2014)
Associate Professor, Art
B.A., Rice University
M.F.A., Rochester Institute of Technology

Coffman, Jodi (2000)
Counseling
B.A., University of California, Santa Barbara
M.A., San Diego State University
M.Ed., Ed.D., University of San Diego

Collins, Monica (2006)
Professor, American Sign Language Program
B.S., Illinois State University
M.S., Western Oregon State

Colunga, Molly (2002)
Professor, Reading
B.A., M.S., California State University, Fullerton
M.A., Pennsylvania State University

Corp, Richard (2015)
Associate Professor, Mathematics
B.S., California Polytechnic State University, Pomona
M.S., California State University, Fullerton

Courter, William (1996)
Professor, Geography
A.A., Long Beach City College
B.A., California State University, Long Beach
M.A., California State University, Northridge

Coyne, Claire M. (2006)
Professor, Earth Science/Geology
B.S., University of Maryland, College Park
M.S., University of Southern California

Cummings, Reyna (2016)
Associate Professor, Communication Studies
B.A., Saint Mary's College
M.A., California State University Los Angeles

Delaby, Michael (2020)
Assistant Professor, Nursing
A.D.N., Golden West College
B.S.N., M.S.N., University of Texas, Arlington

Deluna, Daniel (2014)
Associate Professor, History
A.A., Saddleback College
B.A., University of California, Los Angeles
M.A., California State University, Northridge

Dermody, Michael (2016)
Assistant Professor, Digital Media
B.S., California State University, Sacramento
M.S., Ithaca College
M.F.A., National University

Diamond, Zachary (2019)
Assistant Professor, Welding Technology
Los Angeles Structural Welding Certified
Divers Academy International Certified

Dibb, Patrick (2015)
Associate Professor, EMT
A.A., Santa Ana College
B.S., University of California, Irvine

Diller, Jeffrey (2014)
Associate Professor, English
A.A., Riverside City College
B.A., M.A., California State University, Fullerton

Dinh-Mahavongtrakul, Minhan (2016)
Assistant Professor, Biology
B.S., University of California, Davis
M.S., Ph.D., University of California, Irvine

Dombroske, Leona (2018)
Assistant Professor, Pharmacy Technology
Pharm.D., University of California School of Pharmacy

Doolittle, Glenn A. Jr. (1996)
Professor, Global Business and Entrepreneurship
B.A., University of Texas
J.D., University of Georgia

Dufala, Christopher (2016)
Assistant Professor, Studio Arts
B.F.A., Rowan University
M.F.A., California State University, San Jose

Dumon, Dori (2017)
Assistant Professor, Business Applications & Technology
A.A., Santa Ana College

Dwyer, Dalva (2001)
Professor, ESL
B.A., UNIVAP, Brazil
M.A., California State University, Fullerton

Emley, Catherine (1998)
Professor, Medical Assisting
A.A., B.S.N., Mount St. Mary's College, Los Angeles
M.N., Psychiatric Mental Health Nursing
University of California, Los Angeles

Estrada, Maria (2016)
Assistant Professor, Counseling
B.A., University of California, Los Angeles
M.A., San Diego State University

Ettinger, Becky (2006)
Professor, Nursing
A.D.N., Cerritos College
B.S.N., University of Phoenix
M.S.N., California State University, San Bernardino
D.N.P., Western University of Health Sciences

Everett, Mike (2002)
Professor, Mathematics
B.A., B.S., M.A., California State University, Fullerton

Fish, Zachary (2004)
Professor, Philosophy
B.A., Philosophy, University of New Orleans
M.A., Ph.D., University of California, Riverside

Fondren, Stephanie R. (1996)
Professor, Communication Studies
A.A., Long Beach City College
B.A., M.A., California State University, Long Beach

Freeman, Suzanne (1993)
Professor, Fire Technology
B.A., California State University, Long Beach

Funaoka, Mary (2014)
Associate Professor, Child Development and Education Studies
B.A., University of California, Los Angeles
M.A., Loyola Marymount University
Ed.D., University of Southern California

Galván, Javier (1996)
Professor, Spanish
B.A., California State University, Los Angeles
M.A., M.S., Ph.D., University of Southern California
M.A., California Polytechnic State University, Pomona

Garcia, Yolanda (1985)
Professor, Librarian
B.A., California State University, Long Beach
M.L.S., University of California, Los Angeles

Garnett, Susan (2007)
Associate Professor, ESL/RSAEC Faculty Coordinator
B.A., University of California at Los Angeles
M.S., California State University Fullerton

Gillette, Heather (1999)
Professor, Dance
B.F.A., California State University, Long Beach
M.F.A., University of Utah
Certified Laban Movement Analyst

Gilmour, Dennis (1991)
Counseling
A.S., Grossmont College
B.S., M.S., San Diego State University

Gilreath, Genice (1997)
Professor, Reading
B.S., Minot State University
M.A., California State University, San Bernardino

Gonis, Andy (2005)
Professor, Criminal Justice
B.S., California State University, Long Beach
M.S., California State University Long Beach
Ph.D., Northcentral University
Graduate, FBI National Academy

Gonzaga-Siguenza, Patricia (1996)
Professor, Counseling
B.A., M.S., California State University, Fullerton

Gonzalez, Adrianna (2014)
Associate Professor, Adult Basic Education /GED
B.A., University of California, Irvine
M.A., California State University, Long Beach
TESOL Certificate, University of Anaheim

Gonzales, Gregory (2019)
Assistant Professor, Welding Technology
Los Angeles City Certified Welder
Certified Welding Inspector/Education, American Welding Society (AWS)

Gonzalez, Haydee (2015)
Counseling
A.A., Los Angeles Harbor College
B.A., University of California, Los Angeles
M.S., California State University, Long Beach

Guerrero-Phlaum, Martha (2005)
Professor, Spanish
B.A., M.A., Ph.D., University of California, Irvine

Guzmán, Kristen (2006)
Professor, History
B.A., University of California, Santa Cruz
Ph.D., University of California, Los Angeles

Ha, Michael (2017)
Associate Professor, Counseling
B.A., Divine Word College
M.A., Chapman University

Hager, Benjamin (2013)
Associate Professor, Mathematics
B.A., M.A., California State University, Fullerton

Hampton, Jubal (2001)
Professor, Biology
B.S., University of California, Irvine
M.A., California State University, Fullerton

Hardy, Michelle (2014)
Associate Professor, Child Development and Education Studies
B.A., California State University, Fullerton
M.A., California State University, Long Beach

Hassel, Elissa A. (1996)
Professor, ESL
B.S., University of California, Davis
M.A., Biola University

Heremans, Tiffany (2019)
Assistant Professor, Hospitality and Culinary Arts
A.S., Florida Culinary Institute
B.S., University of Phoenix

Hester, James (1996)
Professor, Computer Science
B.S., M.S., Ph.D., University of California, Irvine

Hicks, Raymond (2002)
Professor, ESL
B.A., Bowling Green State University
M.A., United States International University
M.B.A., Heriot-Watt University

Higgins, Conor (2015)
Associate Professor, English
A.A., Orange Coast College
B.A., M.F.A., San Diego State University

Higgins, Mark (1989)
Professor, English
B.S., St. Vincent College
M.A., University of Southern California

Higuera, Daniel (2019)
Assistant Professor, Physical Fitness, Wellness and Fire Technology
A.S., Mount San Antonio College
B.S., California Polytechnical State University, Pomona
M.S., California Polytechnical State University, Pomona

Hoang, Susan (2015)
Associate Professor, Librarian
B.A., Pomona College
M.L.I.S., California State University, San Jose

Horenstein, Daniel (2017)
Assistant Professor, Astronomy
B.S., Columbia University
M.S., Georgia State University

Hostetter, Darren (2015)
Associate Professor, Studio Arts
B.F.A., M.F.A., California State University, Long Beach

Hughes, Philip (1989)
Professor, Earth Science/Geology
B.S., University of Southern California
M.S., Ohio State University

Huskey, Jason (2019)
A.A., Fullerton College
B.S., California State University, Long Beach
M.A., California State University, San Bernardino
J.D., Western State University College of Law

Isbell, James (2004)
Professor, English
B.A., M.A., Chapman University

Jang, Charles (2014)
Associate Professor, Biology
B.S., California State University, Fullerton
M.S. equiv., University of California, Riverside

Janio, Jarek (2007)
Professor/Coordinator, English as a Second Language
B.A., California State University, Long Beach
M.A., California State University, Dominguez Hills
Ph.D., Walden University,
TESOL Certificate, Seattle Pacific University

Janus, Louise (2011)
Associate Professor, Learning Disability Specialist
B.A., University of San Diego
M.Ed., Argosy University
L.D. Certificate, California State University, Sacramento

Jenkins, Crystal (2004)
Professor, Chemistry
B.A., M.S., University of California, San Diego
M.S., California State University, Long Beach

Jin, Jungwon (2011)
Associate Professor, Music
B.M., Manhattan School of Music
M.M., D.M.A., University of Southern California

Jones, Elliott (2000)
Professor, Music
B.A., M.M., Arizona State University
D.M.A., University of Miami

Jones, Geoff (2004)
Professor, Kinesiology
B.A., Chapman University
M.A., Azusa Pacific University

Jones, Louise (2014)
Associate Professor, Nursing
A.D.N., Santa Ana College
B.S., M.S.N., California State University, Fullerton
D.N.P., Grand Canyon University

Kapil, Jill (2019)
Psychologist
B.A., University of California, Irvine
Psy.D., California School of Professional Psychology

Keith, Katharine (1991)
Professor, ESL
B.A., Connecticut College
M.A., University of Wisconsin, Madison

Kehlenbach, E. Brian (1990)
Professor, Music
B.S., M.M., University of Connecticut
D.M.A., University of Southern California

Kelley, Sara A. (2016)
Assistant Professor, English
B.A., M.A., California State University, Fullerton

Khalid, Donna Sir (2016)
Associate Professor/Coordinator ASE Science
B.S., University of California, Irvine
M.B.A., University of Texas Permian Basin
Ph.D., University of Southern California

Kim, Henry (2001)
Professor, ESL
B.A., University of Hawaii at Manoa
M.A., California State University, Long Beach

Kimmel, Michelle (2018)
Assistant Professor, Child Development and Education Studies
B.A., M.A., California State University, Long Beach
Ed.D., University of Southern California

King, Jaki (2016)
Assistant Professor/Librarian
B.S., Art Institute of Portland
M.L.I.S., Emporia State University

Knight, Annie (2014)
Associate Professor, Librarian
B.A., California State University, San Bernardino
M.L.I.S., California State University, San Jose

Kowsari, Ali (2016)
Associate Professor, Global Business and Entrepreneurship
B.S., Tehran University, Iran
M.S., National University
M.B.A., University of California, Irvine

Kushida, Cherylee (1996)
Coordinator, Distance Education
B.S., University of California, Irvine
M.B.A., Claremont Graduate School

LaBreau, Katie (2019)
Assistant Professor, Communication Studies
B.A., California State University, Long Beach
M.A., California State University, Long Beach

Lamourelle, Chantal (2016)
Assistant Professor, Child Development and Education Studies
B.A., University of California, Los Angeles
M.S., Nova University

Lange, Megan (2017)
Assistant Professor, History
B.A., North Park University
M.A., University of California, Santa Barbara
M.A., California State University, Los Angeles

Lechuga, Janet (2013)
Associate Professor, Mathematics
B.A., M.A., California State University, Fullerton

Leeds, Kelvin (1997)
Professor, Mathematics
B.A., Southern California College
M.A., California State University, Fullerton

Lewis, Michael L. (1996)
Professor, ESL
B.A., California State University, Fullerton
M.A., United States International University

Little, Charles (1986)
Professor, Communications and Media Studies
B.A., Azusa Pacific University
M.A., University of La Verne

Littlejohn, Stacey (2014)
Associate Professor, Chemistry
B.S., Kansas Wesleyan University
M.S., University of California, Irvine

Lockhart, Ann (2011)
Counseling
B.S.W., M.S.W., California State University, Long Beach

Lockwood, Lance (2005)
Professor, Communication Studies
A.A., Victor Valley College
B.A., M.A., Chapman University

Lopez, Jorge (2007)
Professor, Biology
B.S., University of California, Davis
M.S., University of Chicago
Ph.D., Indiana University

Lopez-Jaurequi, Leticia (1994)
Professor, ESL
B.A., Yale University
M.A., TESOL Certificate, California State University, Fullerton

Lopez Mercedes, Jose (2017)
Assistant Professor, ESL
A.A., Santa Ana College
B.A., California State University, Fullerton
M.A., TESOL Certificate, California State University, Fullerton

Lui, Rachel (2015)
Associate Professor, Mathematics
A.A., Fullerton College
B.A., University of California, Los Angeles
M.A., California State University, Fullerton

Luppani, Flo (2004)
Professor, Kinesiology
B.A., Chapman University
M.A., California State University, Humboldt

Macdonald, Juli (1996)
Professor, Kinesiology
B.S., M.S., California State University, Fullerton

Macintyre, Michelle (2015)
Counseling
B.A., University of Hawaii
M.A., Concordia University
M.A., California Polytechnic State University, San Luis Obispo

Madrigal, Osiel R. (2016)
Associate Professor, Workforce Development Coordinator
B.S., M.P.A., San Diego State University
Ed.D., University of La Verne

Mandir, Joshua (2014)
Associate Professor, Chemistry
B.S., University of California, Irvine
Ph.D., University of Wisconsin, Madison

Manzano, Richard (1990)
Professor, Legal Studies
A.A., Glendale Community College
B.S., California State University, Los Angeles
J.D., Southwestern University School of Law
Member of California State Bar

Marquez, Phil (2011)
Associate Professor, Art
B.A., California State University, Fullerton
M.F.A., Claremont Graduate University

Marr, John (2014)
Associate Professor, Music
B.A., M.A., California State University, Fullerton

Martinez, Donato (1996)
Professor, English
B.A., California Polytechnical State University, Pomona
M.A., California State University, Fullerton

Mathis, Jane (2005)
Counseling
B.A., University of California, Irvine
M.S., California State University, Long Beach

Mathot, Sarah (2015)
Associate Professor, Nutrition & Foods
B.S., California Polytechnic State University, San Luis Obispo
M.S., R.D.N., California State University, Long Beach

Mayer, Quynh (2019)
Assistant Professor, Nursing
A.D.N, Glendale Community College
B.S.N., M.S.N., California State University, Fullerton

McAdam, Jennifer (2019)
Assistant Professor, Chemistry
B.S., Loyola Marymount University
M.S., University of California, Irvine

McCallick, Mark (2014)
Associate Professor, Accounting and Business Administration
B.S., Loyola Marymount University, Los Angeles
Certified Public Accountant, State of California

McKenna-Sallade, Dawn (2017)
Assistant Professor/Coordinator, Occupational Therapy Assistant
Occupational Studies Bachelor Degree Program
B.S., Tufts University
M.A., University of Southern California

McKowan-Bourguignon, Lisa (2011)
Associate Professor, Mathematics
A.A., Santa Ana College
B.S., M.S., California State University, Long Beach

McMillan, Jeffrey (1992)
Professor, Chemistry
A.A., Santa Ana College
B.S., University of California, Irvine
Ph.D., Princeton University

Meckes, Ana M. (2015)
Counseling
B.A., M.S., California State University, Long Beach

Medina, Moises (2014)
Associate Professor, History
B.A., California State University, Northridge
M.A., University of California, Riverside

Meier, Krystal (1997)
Professor, Mathematics
B.A., California State University, Long Beach
M.A., Azusa Pacific University
M.A., California State University, Fullerton

Mishal, Amit (2015)
Associate Professor, Mathematics
B.A., M.A., University of California, Los Angeles
M.A., California State University, Fullerton
Ed.D., University of Southern California

Mixer, Dale (2004)
Professor, Nursing
A.D.N., Cerritos College
B.S.N., California State University, Fullerton
M.S.N., University of Phoenix

Montes, Agustin (1998)
Professor, Economics
B.A., M.A., California State University, Long Beach

Moreno, Alejandro (2016)
Associate Professor, Counseling
B.A., University of California, Irvine
M.A., Azusa Pacific University

Morgan, Adam (2018)
Assistant Professor, Business Applications and Technology
A.A., Irvine Valley College
B.A., California State University, Fullerton
M.S., California State University, Fullerton

Morris, A. Kimo (2011)
Associate Professor, Biology
B.A., University of California, Santa Barbara
M.Sc., Oregon State University
Ph.D., University of California, Los Angeles

Mowrer, Melanie (2002)
Professor, ESL
B.A., Moravian College
M.A., United States International University, Irvine
TESOL Certificate, University of California, Irvine

Muir, Shannon (2016)
Assistant Professor, Counseling
B.A., University of California, Los Angeles
M.A., California Graduate Institute
M.Ed., University of Southern California

Murphy, Tim (2000)
Professor, Political Science
B.S., M.A., Ball University
Ph.D., University of Cincinnati

Nair, Arjun (2018)
Assistant Professor, Biology
B.S., University of California, Davis
M.S., University of California, Irvine
Ph.D., University of California, Irvine

Nardi, Nicholas (2019)
Assistant Professor, Psychology
A.A., Pierce College, Woodland Hills
B.A., California State University, Northridge,
M.A., California State University, Chico
Ph.D., Pepperdine University

Natale, Alexander (2020)
Assistant Professor Physics
B.S., University of Idaho
Ph.D., University of California, Riverside

Nguyen, Huy (2018)
Assistant Professor, Computer Science
B.S., California State University, Long Beach
M.S., Boston University

Nguyen, Kelly K. (2016)
Assistant Professor, Mathematics
B.A., California State University, Long Beach
M.A., California State University, Fullerton

Nguyen, Madeleine (1996)
Counseling
B.A., California State University, Fullerton
M.A., California State University, Dominguez Hills

Nguyen, Thu T. (2014)
Counseling
B.A., University of California, Irvine
M.S., California State University, Long Beach

Nguyen, Van Thi (1995)
Counseling
B.A., M.S., California State University, Long Beach

Nguyen, William (2003)
Professor, Chemistry
A.S., Santa Ana College
B.S., Ph.D., University of California, Los Angeles

Nick, JoAnn (1996)
Professor, Nursing
B.S.N., South Dakota State University
M.S.N., California State University, Long Beach

Nilles, Tom (2015)
Assistant Professor, Kinesiology
A.A., Laney College
B.A., University of California, Davis
M.A., St. Mary's College of California

Nutter, Kim (1991)
Professor, Kinesiology
B.S., California Polytechnical State University, Pomona
M.A., California State University, Dominguez Hills

Nyssen, Adam (2013)
Assistant Professor, Kinesiology
M.A., Azusa Pacific University
M.A., San Diego State University

Oertel, Patricia (2008)
Professor, Biology
B.S., California State University, Long Beach
Ph.D., University of California, Irvine

Oh, Suanne (2017)
Assistant Professor, Mathematics
M.S., California State University, Northridge.
B.S., University of California, Irvine.

Orr, Estelle C. (1970)
Professor, Art
B.A., M.A., University of California, Berkeley

Ortiz, Rebecca Vasquez (2017)
Assistant Professor, Psychology
B.A., University of California, Riverside
M.A., University of California, Riverside
Ph.D., University of California, Riverside

Padilla, Jessica (2019)
Assistant Professor/Academic Fieldwork
Coordinator, Occupational Therapy Assistant
B.S., Santa Ana College

Patch, Nicole (2019)
Assistant Professor, Library Science
B.A., Smith College
M.A., University of California- Los Angeles
M.L.I.S., University of California, Los Angeles

Papa, Elenor (2016)
Assistant Professor, Nursing
B.S., University of California, Riverside
M.S.N., California Baptist University

Pastrana, Leo (2014)
Counseling
A.A., Orange Coast College
B.A., California State University, Dominguez Hills
M.A., Azusa Pacific University

Patterson, Kathleen (1996)
Professor, English
B.A., M.A., California State University, Fullerton

Patton, Carrie (2013)
Associate Professor, High School Subjects
B.A., St. Mary's College
M.A., National University

Paunovic, Mila (2006)
Professor, Nursing
B.S.N., Loma Linda University
M.S.N., University of Phoenix

Pedroza, Jeffrey (2001)
Professor, Psychology
B.S., M.S., Eastern Michigan University

Pedroza, Luis (1994)
Professor, Librarian
B.A., California State University, Long Beach
M.L.I.S., University of California, Berkeley

Peraza, Daniel (2017)
Assistant Professor, Counseling
B.A., California Polytechnic State University, Pomona
M.S., California State University, Long Beach

Pierce, Cathryn (2014)
Associate Professor, Communication Studies
B.A., California State University, Long Beach
M.A., New York University

Pineda, Maribel (2016)
Counseling
A.A., Santa Ana College
B.A., University of California, San Diego
M.S.W., California State University, Dominguez Hills

Polanco-Zook, Rochelle (2001)
Counseling
A.A., Rio Hondo College
B.A., M.S.W., California State University, Long Beach

Quach, Nguyen (2015)
Associate Professor, Computer Science
B.S., M.S., California State University, Fullerton

Ramirez, Adrian (2017)
Assistant Professor, History
A.A., Santa Ana College
B.A., University of California, Irvine
M.A., University of California, Irvine

Ramshaw, Charles (2001)
Professor, English
B.A., California State University, Fullerton
M.A., Chapman University

Rehm, David (2019)
Assistant Professor, Communication Studies
A.A., Santiago Canyon College
B.A., California State University, Long Beach
M.A., California State University, Long Beach

Ro, Kelly (2015)
Associate Professor, Mathematics
B.S., University of California, Los Angeles
M.A., University of Phoenix
M.A., California State University, Fullerton

Robertson, Mario C.S. (2006)
Professor, Anthropology
B.A., M.A., California State University, Fullerton

Robinson, Kristen (2011)
Associate Professor, Legal Studies
A.S., Snow College
B.A., Southern Utah University
J.D., Brigham Young University
Member of California State Bar

Robledo, Rey (2005)
Counseling
B.S., California State University, Fullerton
M.S., University of La Verne

Rocke, Brandon (2014)
Associate Professor, English
B.A., California State University, Long Beach
M.A., Chapman University

Romero, Martin (2014)
Associate Professor, Mathematics
B.S., University of California, Los Angeles
M.S., California State University, Los Angeles
Ph.D., University of California, Los Angeles

Roper, David (2018)
Assistant Professor, Automotive Technology
A.A., Cerritos College
B.A., California State University, Los Angeles
M.A., Arizona State University

Ross, Kris (2006)
Professor, Fire Technology
B.A., M.A., California State University, Long Beach

Ross Jr., John (2009)
Professor, Pharmacy Technology
B.S., California State University, Fullerton
CPhT, Santa Ana College

Rudd, James (2014)
Associate Professor, Automotive Technology
A.A., Cerritos College

Russo, Stacy (2011)
Associate Professor, Librarian
A.A., Cypress College
B.A., University of California, Berkeley
M.L.I.S., California State University, San Jose
M.A., Chapman University

Sabzevary, Mohammadreza Mirbeik (2017)
Assistant Professor, Mathematics
B.S., M.A, Iran-University of Tehran

Sanabria, Reina (2001)
Counseling
A.A., Fullerton College
B.S., California State University, Fullerton
M.A., Chapman University

Saterfield, Kalonji (2016)
Assistant Professor, Communication Studies
B.A., California State University, Stanislaus
M.A., California State University, Fullerton

Schlossman, Jacqueline (2019)
Assistant Professor, Photography
B.A., Sarah Lawrence College
M.F.A., Maryland Institute College of Art

Schroeder, Brian (1989)
Professor, Nursing
B.A., California State University, Fullerton
B.S.N., M.S.N., Azusa Pacific University

Seitz Carol (2016)
Assistant Professor, Medical Assisting
B.A., University of California, Irvine

Shaffer, Cathie (2006)
Counseling/MESA Program Director
B.A., University of California, Irvine
M.S., California State University, Fullerton

Shahbazian, Roy (2007)
Professor, Mathematics
B.S., M.S., University of California, Irvine
M.S., University of California, Los Angeles

Shweiri, Gabriel (2011)
Associate Professor, Global Business and Entrepreneurship
B.A., The George Washington University
M.IM, Thunderbird American Graduate School of International Management

Sill, Kenneth (1994)
Professor, Mathematics
B.S., University of California, Irvine
M.S., University of California, Riverside

Sim, Jai S. (2018)
Assistant Professor, Computer Science
B.A., Kean University
M.B.A., Saint Peters University
M.B.A., Northeastern University

Simbro, Teresa (1997)
Professor, Nursing
A.D.N., Santa Monica College
B.S.N., M.S.N., California State University, Dominguez Hills

Simmerman, Stacy (2016)
Assistant Professor, English
A.A., Santiago Canyon College
B.A., University of California, Irvine
M.A., Claremont Graduate University

Singh, Nirbhai (Nick) (1999)
Professor, Manufacturing Technology
B.S., University of Punjab, India

Smith, Elizabeth (2019)
Assistant Professor of American Sign Language
B.A., Biola University
M.A, Biola University

Smith, Kimberly, Esq. (2016)
Associate Professor, Legal Studies
B.A., California Polytechnic State University, Pomona
J.D., Southwestern University School of Law
Member of California State Bar

Smith, Sean (2017)
Assistant Professor, Mathematics
B.S., M.S., California Polytechnic State University, Pomona

Solheid, Christa (2000)
Professor, Mathematics
A.A., Fullerton College
B.A., M.A., California State University, Fullerton
Ed.D., Argosy University, Orange County

Soriano, Irene (1994)
Professor, Art History
B.A., University of Texas at El Paso
M.A., Boston College
M.A., Ph.D., Boston University

Sos, Brian (2011)
Associate Professor, Kinesiology/DSPS
B.S., M.A., San Diego State University
Ph.D., Florida State University

Sosta, Rachel (2011)
Professor, English
B.A., Occidental College
M.A., California State University, Fullerton

Steckler, Mary (2002)
Professor, Nursing
A.D.N., Saddleback College
B.S.N., M.S.N., California State University, Dominguez Hills

Stevens, Hayley (2019)
Assistant Professor, Physical Fitness, Wellness and Criminal Justice
B.S., California State University, Fullerton
M.S., California State University, Fullerton

Strong, John Henry Thomas (2015)
Associate Professor, Accounting and Business Administration
B.S., M.S., University of Texas at Dallas
Certified Public Accountant, State of Texas

Stucken, Robert (2006)
Professor, Nursing
A.D.N., Golden West College
B.A., California State University, Long Beach
M.S.N., University of Phoenix

Sung, Linda (2016)
Associate Professor, Accounting and Business Administration
B.S., California Polytechnic State University, Pomona
J.D., Northwestern California University School of Law
Member of California State Bar
Certified Public Account, State of California

Sweeney, George (2011)
Associate Professor, Mathematics
B.A., University of California, Los Angeles
M.S., California Polytechnic State University, Pomona
Ph.D., San Diego State University

Takahashi, Craig (2006)
Professor, Engineering
B.S., M.S., Ph.D., University of California, Irvine

Takahashi, Kathleen (2005)
Professor, Biology
B.S., University of California, Irvine
M.S., California State University, Long Beach
Ph.D., University of California, Los Angeles

Tashima, John (2014)
Associate Professor/Coordinator, Adult Basic Education
B.A., University of California, Santa Cruz
M.A., California State University, Long Beach

Taylor, Michael (2015)
Associate Professor, Digital Media
B.A., California State University, Fullerton

Tolentino, Justin (2016)
Assistant Professor, Mathematics
B.A., M.A., California State University, Fullerton

Tran, Melissa L. (1999)
Professor, English
B.A., Wellesley College
M.A., Chapman University

Trone, Jinhee (1999)
Professor, Accounting and Business Administration
B.S., California State University, Los Angeles
M.Ed., University of California, Riverside
Certified Public Accountant, State of California

Turner, Mark (2014)
Learning Disability Specialist, Associate Professor
B.A., University of California, Irvine
M.A., California School of Professional Psychology (Alliant University)

Uffelman, Taylor (2020)
Assistant Professor, Nursing
A.D.N., Santa Ana College
B.S.N., M.S.N., Western Governors University

Valles, Rodrigo (2016)
Assistant Professor, Ethnic Studies
A.A., East Los Angeles College
B.A., California State University, Dominguez Hills
M.A., California State University, Los Angeles

Valtairo, Rowena (2007)
Professor, Nursing
B.S.N., M.S.N., California State University, Fullerton
D.N.P., Western University of Health Sciences

Vargas, Martha (1997)
Counseling-Transfer Center
B.A., California Polytechnic State University, Pomona
M.S., California State University, Fullerton

Vasquez, Michelle (2015)
Associate Professor, Nursing
A.A., Golden West College
B.S.N., California State University, Fullerton
M.S.N., California State University, Long Beach

Veyna, Angelina F. (1993)
Professor, History
B.A., University of California, Irvine
M.A., University of California, Los Angeles

Viera, Violeta (2016)
Associate Professor, Counseling
B.A., California State University, Fullerton
M.A, University of San Diego

Villa, Beatriz (2020)
Assistant Professor, English
B.A., M.A., California State University, Long Beach

Vu, Dahlia (2006)
Professor, Mathematics
B.S., M.A., University of California, Riverside

Walczak, Katharine (2014)
Associate Professor, Learning Center Coordinator
B.A., Earlham College
M.Ed., Cleveland State University
M.B.A., Baldwin-Wallace University

Wang, Wendy (2019)
Assistant Professor, Occupational Therapy Assistant
Occupational Studies Bachelor Degree Program
B.S., University of California, Davis
M.S., University of Southern California

Wann, Terri (1985)
Professor, Fire Technology
B.S., M.S., California State University, Fullerton

Weber, Merari L. (2016)
Associate Professor, ESL Coordinator
B.A., M.A., California State University, Los Angeles
Ed.D., University of Southern California

Yamada, Ted K. (1993)
Professor, Chemistry
B.S., Ph.D., University of Southern California

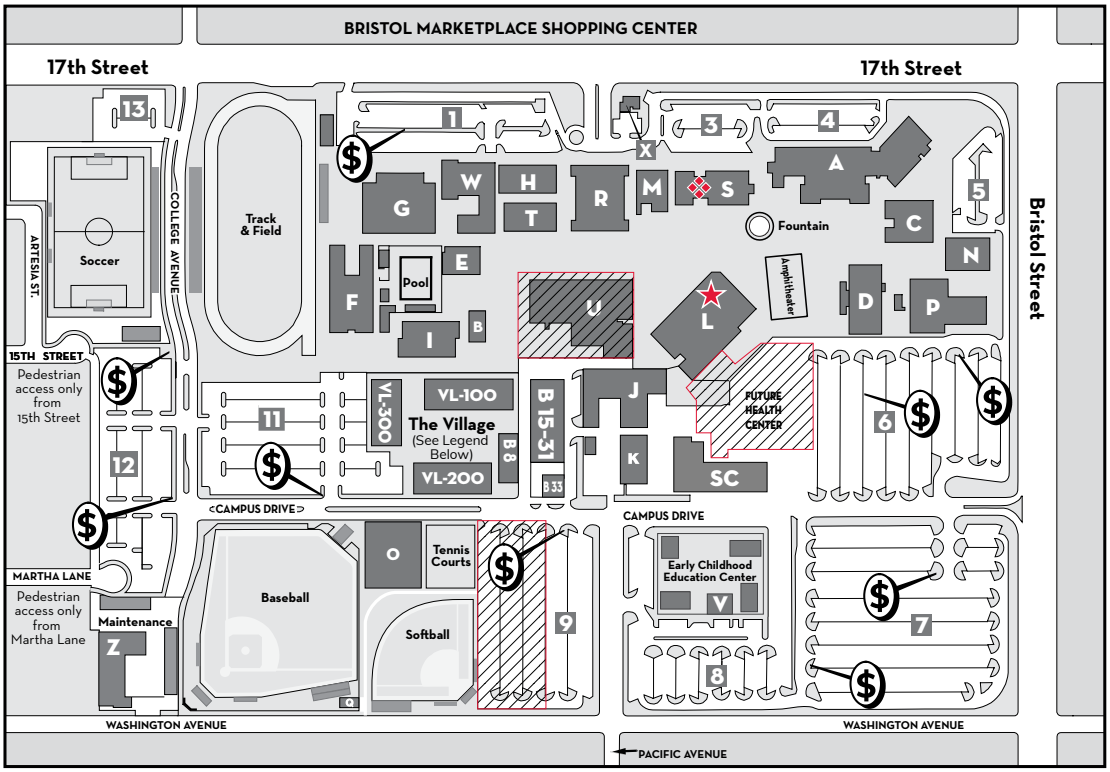
Yimenu, Betty (2019)
Assistant Professor, Psychology
B.A., California State University, Fullerton
M.A., California State University, Fullerton
Ph.D., Case Western Reserve University

Zarske, John (1996)
Professor, Mathematics
A.A., Golden West College
B.A., California State University, Long Beach
M.S., University of Southern California

Zarske, Monica S. (2005)
Professor/Coordinator, Speech Language Pathology
Assistant Program (SLPA)
B.A., M.A., San Diego State University

MAP - Santa Ana College

SANTA ANA COLLEGE 1530 W. 17th Street • Santa Ana, CA 92706 • 714-564-6000 • sac.edu



PARKING

($) Daily Permit Dispenser ($2.00 for 8 hours)

- 1 STAFF
- 2 SECURITY
- 3 VISITOR
- 4 - 5 STAFF
- 6 - 13 STUDENT

(except as posted)

CAUTION!

Parking in Bristol Marketplace, across the street from Santa Ana College, is not allowed. Violations will result in tow-aways. RSCCD requires parking permits for student and staff lots at Santa Ana College and Santiago Canyon College. **Semester Parking Permits may be purchased at time of registration for $30.00 in the Student Business Office (VL-205B) in the Village at Santa Ana College, as well as in the Cashier's Office at Santiago Canyon College.** The purchase of your permit funds parking services and vehicle security when parked on campus.

Denotes "Closed for Construction" ★ Student Help Desk - Inside Nealley Library ❖ Student Resource Desk: S-Building Lobby

SAC FACILITIES AND LOCATIONS To see the most recent version of this map, go to sac.edu/AboutSAC/Maps

A	Cesar Chavez Building	
	Academic Computing Center	(A-106)
	Distance Education	(A-101)
B	Middle College High School	
	SAUSD Administration Office	(B-10)
	Classrooms (The Village)	(VL-300)
B 8	Adult Education Center Office	
B 15–31	Adult Education Classrooms	
B 33	Adult Education Classrooms	
C	Fine Arts / Art Gallery	
D	Dunlap Hall	
	Honors Program	(D-307)
	Learning Center	(D-428)
E	Fitness Center	
F	Locker Rooms	
G	Cook Gym	
H	Hammond Hall	
I	Classroom Building	
J	Auto Shop	
K	Welding / Auto Diesel	
L	Nealley Library – 1st Floor	
	L Building – 2nd Floor:	
	Assessment Center	(L-223)
	Career Center	(L-222)
	Math Study Center	(L-204)
	MESA Program	(L-206)
M	Planetarium	
	Veterans Resource Center	(M-120)
N	Music Building	
O	Central Plant	
P	Phillips Hall Theatre	
Q	Sports Concession	
R	Russell Hall	
	Student Support Services / TRiO	(R-115)
S	Administration Building – First Floor:	
	Admissions / Records	(S-101)
	Counseling	(S-112)
	Graduation Office	(S-104)
	Promise Program	(S-110)
	PUENTE Program	(S-110)
	University Transfer Center & Center for Teacher Education	(S-110)
	Administration Building – 2nd Floor:	
	Community Services Program	(S-203)
	Foundation	(S-201)
	Scholarship Program	(S-201)
	Student Outreach	(S-213)
SC	Science Center	
T	Technical Arts	
U	Johnson Center (Under Construction)	
V	Early Childhood Education Center	
	Classroom	(V-103
VL	The Village	
	Bookstore	(VL-209)
	Campus Store	(VL-206)
	Classroom	(VL-103)
	Disabled Students Program (DSPS)	(VL-204)
	EOPS/CARE/CalWORKs	(VL-110)
	EOPS/CARE/CalWORKs Resource Center	(VL-109)
	Financial Aid	(VL-105)
	Guardian Scholars	(VL-108)
	Health & Wellness Center	(VL-211)
	International Student Program	(VL-104)
	Middle College High School Classrooms	(VL-300)
	Student Business Office	(VL-205B)
	Student Life (ASG)	(VL-108)
	Student Placement	(VL-106)
	The Spot	(VL-210)
W	Kinesiology	
X	Security / Safety	
Z	Maintenance	

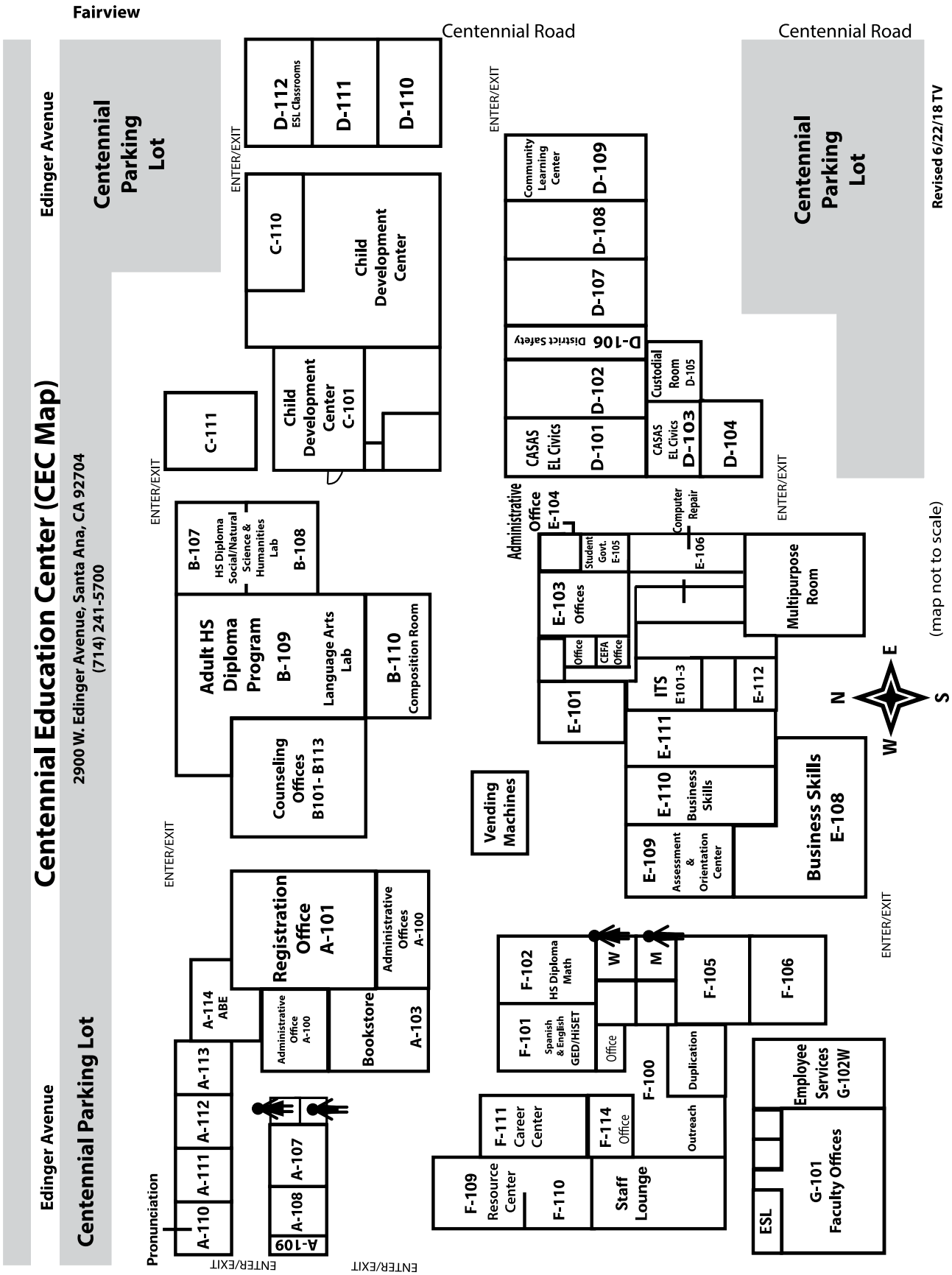
tobacco-free SAC

SAC IS TOBACCO-FREE

Use of tobacco-related products is allowed only in parking lots.

REV: 05.07.2020

MAP - Centennial Education Center



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